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OIL AND GAS

SURFACE OPERATING STANDARDS FOR OIL AND GAS EXPLORATION AND DEVELOPMENT

Prepared by United States Department of the Interior
Bureau of Land Management • Geological Survey

United States Department of Agriculture • Forest Service
Second Edition

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Forest Service or Geological Survey Office whose address
appears on page 41 through 68.

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Denver, Colorado



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U.S. GEOLOGICAL SURVEY CENTRAL REGION



■ Regional Office

Office of the Conservation Manager
USGS, Conservation Division
7200 West Alameda Avenue
Lakewood, CO 80226
303-234-2855

● Area Offices

Area Oil and Gas Supervisor
USGS, Conservation Division
6136 East 32nd Place
Tulsa, OK 74135
918-581-7631

Area Oil and Gas Supervisor
USGS, Conservation Division
P.O. Box 2859
Casper, WY 82602
307-265-5550

Area Oil and Gas Supervisor
USGS, Conservation Division
505 Marquette NW, Room 815
Albuquerque, NM 87102
505-766-2841

BUREAU OF LAND MANAGEMENT STATE OFFICES WITHIN GEOLOGICAL SURVEY'S CENTRAL REGION



Geological Survey's Central Region

State Office Area Jurisdiction

● State Offices

Colorado State Office
Colorado State Bank Building, Room 700
1600 Broadway
Denver, CO 80202
303-837-3814

Montana State Office
222 North 32nd Street
P.O. Box 30157
Billings, MT 59107
406-657-6461

New Mexico State Office
U.S. Post Office and Federal Building
South Federal Place
P.O. Box 1449
Sante Fe, NM 87501
505-988-6204



Utah State Office
University Club Building
136 East South Temple
Salt Lake City, UT 84111
801-524-5320

Wyoming State Office
P.O. Box 1828
2515 Warren
Cheyenne, WY 82001
307-778-2220 Ext 2455

Eastern States Office
7981 Eastern Avenue
Silver Springs, MD 20910
301-427-7500

FOREST SERVICE REGIONS WITHIN GEOLOGICAL SURVEY'S CENTRAL REGION



 Geological Survey's Central Region
 Forest Service Regional Boundaries

● Regional Offices

Northern Region, Region 1
 Federal Building
 P.O. Box 7669
 Missoula, MT 59807
 406-329-3518

Rocky Mountain Region, Region 2
 11177 West 8th Avenue
 Box 25127
 Lakewood, CO 80225
 303-234-3905

Southwestern Region, Region 3
 517 Gold Avenue, SW
 Albuquerque, NM 87102
 505-474-2005

Intermountain Region, Region 4
 324 25th Street
 Ogden, UT 84401
 801-399-6264

Southern Region, Region 8
 1720 Peachtree Road, NW
 Atlanta, GA 30309
 404-881-2692

Eastern Region, Region 9
 633 West Wisconsin Avenue
 Milwaukee, WI 53203
 414-291-3324

Introduction

The operating requirements of Federal oil and gas leases have been significantly changed due to new and revised legislation [e.g., the National Environmental Policy Act of 1969 (83 Stat. 852), Federal Land Policy and Management Act (Public Law 94-579)], recent Executive Orders and revised Department of the Interior regulations.

Secretary of the Interior Order No. 2948 of October 6, 1972, sets forth the administration and management procedures to be followed by the Bureau of Land Management (BLM) and Geological Survey (GS) regarding onshore mineral leasing and operating activities. The BLM/GS cooperative procedures agreement of August 29, 1975 sets forth the specific responsibilities of the BLM and the GS with respect to operations on public lands and Federal minerals beneath privately owned surface. The cooperative agreement of March 4, 1977, sets forth the responsibilities of the Forest Service (FS) and the Geological Survey for oil and gas operations on National Forest System lands.

Federally owned oil and gas reserves are managed by the U.S. Department of the Interior, including those reserves in public lands administered by BLM, National Forest System lands administered by the FS, and lands with privately owned surface. GS is the administrator of operations granted by a Federal oil and gas lease.

Maps of Federal Jurisdiction

The area covered by this brochure is the Geological Survey's Central Region. (See map on page 2.) Maps of BLM State Offices and FS Regional Offices within this region are on pages 3 and 4. The addresses and telephone numbers of GS, BLM, and FS Field Offices to be contacted are listed starting on page 41.

Purpose of Brochure

The GS issued "Notice to Lessees (NTL) Number 6, Approval of Operations" on June 1, 1976, in order to make Federal lessees aware of the conditions and standards under which they are required to operate. This brochure has been developed to help oil and gas operators fulfill the requirements of NTL-6 and to provide information for use in planning development programs. Any operator planning development of a Federal oil and gas lease should be aware of the exploration, development and abandonment phases of the lease, as well as the time and procedural requirements of each phase. (See Chapter 5 Procedural Guidelines.)

BLM/FS

Throughout this brochure, the operator is instructed to submit a copy of a plan to GS (meaning GS District Oil and Gas Engineer) and to BLM/FS (*meaning BLM District Manager for public lands and land with privately owned surface or FS District Ranger for National Forest System lands*). A stipulation to the lease usually indicates whether the lessee is to contact BLM or FS as the Federal Surface Management Agency. When this information is not provided in the lease, the lessee should contact the GS District Engineer to determine the Federal agency and specific individual to be contacted.

Maps Are Required

NTL-6 requires operators to obtain approval prior to entry upon the lands. Before land entry, the operator must submit to GS and BLM/FS one copy of a map outlining anticipated activities.

Filing Plans

After a well location and right-of-way access is staked, an Application for Permit to Drill (APD) and a Multipoint Surface Use and Operations Plan (MSUOP) must be filed for approval by the GS District Engineer. This plan must cover all proposed drilling and attendant operations that will disturb the surface. No APD will be approved until an onsite inspection, if required, has been conducted, an environmental analysis prepared, and archeological and threatened and endangered species clearances obtained from BLM/FS.

Amendments to Plans

All changes in operations described in the approved APD and MSUOP must be submitted to the GS District Engineer for approval as amendments to the Plan. These amendments must show proposed locations of roads, tank batteries, production facilities, flowlines and other related facilities. All proposed surface disturbing operations in existing fields require a new or modified Surface Use and Operations Plan. Such plans and amendments will not be approved by the GS District Engineer until there has been an onsite inspection, if required, preparation of an environmental analysis, and clearance for archeological and threatened and endangered species purposes from BLM/FS.

Abandonment

Every site to be abandoned must be rehabilitated. This usually consists of seeding, mulching, fertilizing and shaping the land to minimize erosion and visual impacts. Since the conditions of disturbed areas are known at the time of abandonment, additional requirements for rehabilitation may be made at the time a Sundry Notices and Reports on Wells, Notice of Intent to Abandon (NIA) is filed. Any additional requirements will be designed to aid the operator in qualifying for final approval. The GS District Engineer will not ap-

prove abandonment until all terms and conditions have been met to the satisfaction of BLM/FS. The key to development of an acceptable plan is to incorporate all the necessary operational information, including resource and surface protection measures to be taken during operations, rehabilitation and abandonment.

Approval of Plan

Early contact with the GS District Office will expedite approval of the Multipoint Surface Use and Operations Plan (MSUOP). This contact should be made prior to commitment of dates, equipment, access route acquisition and planning. A preliminary field examination may be made to review possible serious conflicts with other resource values. To alleviate problems prior to development of the Plan, GS and BLM/FS will inform the operator of resource values and surface protection measures that should be taken in an area and included in the Plan. BLM/FS can also advise GS and the operator if no cultural resource examination is to be required.

Restrictions

Exploration, drilling or other development activity may be prohibited during certain times of the year. For example, development activity during certain spring months may be curtailed when in close proximity to sensitive wildlife breeding grounds. This applies as well to critical wildlife habitat areas during certain winter months. New operations may temporarily be prohibited or restricted when the ground is wet and muddy and significant damage could result from use. Buffer areas near streams and recreation areas may be withheld from surface disturbing activities. Such areas can often be identified by BLM/FS when an operator makes his preliminary contact. Archeological, historical and threatened and endangered species clearances are required prior to approval of any plan.

Other Permits

The lease authorizes the lessee to conduct approved oil and gas operations only on the lease area. A right-of-way permit for off-lease uses may be additionally required by BLM. Those on-lease uses (i.e., geophysical activities) not approved in an oil and gas operating plan by GS, and all off-lease uses (i.e., access roads, facilities) on National Forest System lands, require a special use permit issued by FS. All pipelines, flowlines, powerlines, telephone lines and other facilities owned or constructed on the lease by parties other than the lessee also require a right-of-way or temporary use permit.

Standards and Requirements

Every operation authorized under a Federal oil and gas lease should conform to the highest professional standards. Knowledge of the Department of the Interior and Forest Service operational standards, procedures and environmental protection requirements will help an operator meet these standards. The following guidelines have been developed to help the operator in preparing the Multipoint Surface Use and Operations Plan and during on-the-ground operations.

1 Geophysical Operations

BLM Requirements

Geophysical Operator

Geophysical operations on and off an oil and gas lease are approved by the Federal Surface Management Agency — BLM or FS, as appropriate. Good administration and surface protection on geophysical operations can only be accomplished through close cooperation of the operator and BLM or FS.

Geophysical operations on public lands are approved by BLM. The responsibilities of the operator and the BLM District Manager are as follows:

The operator is required to file, in person or by mail, a "Notice of Intent to Conduct Oil and Gas Exploration Operations" for all operations on public lands administered by BLM. Forms for this purpose are available in all BLM District Offices. (See Form 3040-1, page 9.) The Notice includes maps showing the location of the line, all access routes and must be filed in the BLM District Office before operations begin. The map should be a minimum scale of one-half inch equal to one mile. Where available, USGS 7.5 minute quadrangle maps should be used.

The operator is required to be bonded. A copy of the bond or other evidence of satisfactory bonding shall accompany the "Notice of Intent." Proper bonding can include a nationwide or statewide oil and gas bond with a rider for geophysical exploration or a \$5,000 individual surety bond filed with the District Manager. The name listed on the "Notice of Intent" is the company required to be bonded.

The operator is required to notify the District Manager before entering onto public lands administered by BLM.

The operator is required to obtain the District Manager's prior written approval before commencing any surface disturbing activities such as with bulldozers.

The operator is required to notify the

District Manager in writing of any changes in the original Notice and secure written approval for proposed changes before proceeding.

The operator is required to comply with written instructions and orders given by the District Manager at the prework conference or field inspection (if required) before actual work begins and during field investigations.

The operator is required to notify the District Manager that his operations are completed and that he is leaving the land listed on the Notice.

The operator is required to file a "Notice of Completion of Geophysical Exploration" in person or by mail after rehabilitation work is completed. Forms for this purpose are available in all BLM offices. (See Form 3045-2, page 9.)

The operator may be required to submit an acceptable archeological survey if dirt work is contemplated.

The operator is required to comply with all applicable Federal, State and local laws such as the Federal Land Policy and Management Act of 1976, Historic Preservation Act of 1966, Threatened and Endangered Species Act, etc.

The District Manager is responsible for the examination of resource values and the development of appropriate surface protection and reclamation measures.

The District Manager is responsible for compliance inspections.

The District Manager is required to check for proper bonding.

The District Manager is required to contact the operator immediately after the "Notice of Intent" is filed and explain the terms of the "Notice of Intent," including: the operating procedures to be followed or avoided, all current laws and all BLM administrative requirements.

District Managers — BLM

Form 3040-1
(November 1970)
(formerly 3107-1)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOTICE OF INTENT TO CONDUCT OIL AND GAS EXPLORATION OPERATIONS

Name	Address (include zip code)
------	----------------------------

hereby files this "Notice of Intent to Conduct Oil and Gas Exploration Operations" across and upon (give description of lands by township(s) and range)

The type of operation to be pursued is ☐ magnetometer ☐ seismograph ☐ other (specify)

Approximate date of commencement of operations _____ Upon completion of work, the Bureau of Land Management District Manager shall be furnished a "Notice of Completion of Oil and Gas Exploration Operations."

The undersigned agrees that oil and gas exploration operations will be conducted pursuant to the following terms and conditions:

1. Exploration operations shall be conducted in compliance with all Federal, State and County laws, ordinances or regulations which are applicable to the area of operations including, but not limited to, those pertaining to fire, sanitation, conservation, water pollution, fish and game. All operations hereunder shall be conducted in a prudent manner.
2. Due care will be exercised in protecting lands in this notice. All necessary precautions shall be taken to avoid any damage other than normal wear and tear, to gates, bridges, roads, culverts, cattle guards, fences, dams, dikes, vegetative cover and improvements, and stock watering and other facilities.
3. Appropriate procedures shall be taken to protect any shafts, pits or tunnels, and shot holes shall be capped when not in use to protect the lives, safety, or property of other persons or of wildlife and livestock.
4. All vehicles shall be operated at a reasonable rate of speed, and due care must be taken to safeguard all live-

stock and wildlife in the vicinity of his operations. Bulldozers shall not be used without advance notification to the District Manager. Existing roads and trails shall be used wherever possible, if new roads and trails are made, care should be taken to follow natural contours of the lands where feasible and restoration and/or reseeded, as requested by District Manager shall be made.

5. Upon expiration, revocation or abandonment of operations conducted pursuant to this "Notice," all equipment shall be removed from the land and the land shall be restored as nearly as practicable to its original condition by such measures as the District Manager may specify. All geophysical holes must be safely plugged. Upon leaving the land, the District Manager shall be informed.
6. Upon request, the location and depth of water sands encountered shall be disclosed to the District Manager.
7. The party conducting such operations shall contact the District Manager prior to actual entry upon the land in order to be apprised of the practices which should be followed or avoided in the conduct of his operations in order to minimize damage to property of the United States.

(Signature)

(Signature of Geophysical Operator)

(Address including zip code)

(Address including zip code)

GPO 445-516

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOTICE OF COMPLETION OF OIL AND GAS EXPLORATION OPERATIONS

Name	Address (include zip code)
------	----------------------------

Pursuant to the notice heretofore filed to conduct oil and gas exploration operations, this is to advise that such operations were completed on _____, on the lands described in the previous notice.

(Signature)

(Geophysical Operator)

(Address including zip code)

(Address including zip code)

Form 3045-2, January, 1971

GPO 445-516

3040-1 "Notice of Intent to Conduct Oil and Gas Exploration Operations"

3045-2 "Notice of Completion of Geophysical Exploration"

State Standards

The District Manager is required to complete final inspection after the "Notice of Completion" is filed.

Where applicable, the operator may be required to register with the State and County governments. State standards for plugging shot holes, personnel safety, etc., will be followed. Additional standards may be required by BLM.

Typical Timetable for Geophysical Operations

Day 1 — "Notice of Intent" received by BLM.

Day 3 — BLM contacts geophysical operator.

Day 9 — Pework conference; appraisal of requirements.

Day 10 — If no bulldozer work is necessary, work starts. When bulldozer work is contemplated or becomes necessary, development of rehabilitation requirements and further environmental review may be necessary. The operator may be required to furnish an archeological survey which could normally take up to 30 days. When no bulldozer work is necessary, normally 10 days will be required from "Notice of Intent" filing to start of operations.

Day 30 — When bulldozer work is necessary, normally 30 days will be required to start of operations.

FS Requirements

Geophysical operations on National Forest System lands require a Prospecting Permit issued by the Forest Service. The sequence of actions by the geophysical operator and the FS District Ranger is as follows:

Geophysical Operator

The operator is required to file, in person or by mail, his intentions for all proposed operations on National Forest System lands. Forms are available in all FS District Ranger offices. The application will be accompanied by a map (two inches or larger to the mile) showing access routes and location of lines and all other surface-disturbing activities.

An archeological inventory may be required, at the operator's expense, prior to surface disturbing activities.

The operator will sign and return the Prospecting Permit with the fee requested for operations off the leasehold and a completed Performance Bond form or applicable regional form for approval of FS.

The operator must have an approved Prospecting Permit prior to entry on National Forest System lands and must comply with all stipulations (i.e., notify FS District Ranger of scheduled entry, receive prior approval of any changes in original plans, etc.).

The operator is required to notify the FS District Ranger that operations are completed by submitting a termination notice.

District Ranger

An environmental analysis will be made of the proposed activities to determine the stipulations necessary to protect and reclaim surface resources. The operator will be sent a Prospecting Permit indicating the stipulations, fee to be paid and amount of bond required.

The District Ranger makes final inspections prior to approval of termination and release of bond.

2 Drilling Operations

Preliminary Environmental Review

Whenever the lessee or operator of a Federal oil and gas lease decides to drill on the leasehold, all proposed drilling operations and related surface disturbance activities must be approved before entry upon the lands involved. Approval will be in accordance with: (1) lease stipulations, (2) Title 30 CFR Part 221, "Oil and Gas Operating Regulations," and (3) "Notice to Lessees No. 6 (NTL-6)" issued by the GS effective June 1, 1976.

NTL-6 provides guidelines to the lessee or operator for planning development programs as follows:

This review is required for all future drilling operations prior to entry on the land. The lessee or operator, upon finalizing plans to drill, and prior to actual surveying, must file a map with the GS District Engineer and the appropriate office of the BLM/FS. The map may be a topographic (or such other acceptable map) of a scale not less than one inch equals one mile and which shows the preferred location and general topographic features of the area concerned. If no Application for Permit to Drill is received within six months, a new Preliminary Environmental Review must be submitted or an extension obtained.

Within 15 days and usually about three days after receipt, BLM/FS will notify the lessee or operator of any potential conflicts with other resource values or if a joint inspection is necessary. If the lessee or operator has not been advised to the contrary within 15 days from the filing of the preliminary map, he may enter upon the land for the purpose of required surveying and staking. Unless BLM/FS advises an operator to the contrary, he will be required to furnish, at his expense, a cultural resource inventory for the lands to be disturbed, prepared by a qualified cultural resource specialist.

Form 9-331C
(1-67) (50)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WELL: DRILL ☐ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL: OIL ☐ GAS ☐ OTHER ☐ SINGLE ☐ MULTIPLE ☐

3. NAME OF OPERATOR

4. ADDRESS OF OPERATOR

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface:
At proposed prod. hole:

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

7. DISTANCE FROM PROPERTY LINE TO WELL (Show to surface if not to proposed prod. hole; if not to nearest well, drilling completed, no APD required on this lease, etc.)

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL (Show whether DF, RT, GR, etc.)

9. NO. OF WELLS IN LEASE

10. NO. OF WELLS ADJACENT TO THIS WELL

11. PROPOSED DEPTH

12. ANTICIPATED DATE WELL START

13. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

14. SIGNATURE AND PRINTED NAME OF OPERATOR (If proposal is to deepen or plug back, give data on present production and whether it is to be continued or not. If proposal is to drill or deepen directionally, give pertinent data on subsurface location and gradient and true direction of well previous proposal, if any.)

15. SIGNATURE AND TITLE OF DISTRICT ENGINEER

16. DATE

17. APPROVAL DATE

18. DATE

*See Instructions On Reverse Side

Application for Permit to Drill

An Application for Permit to Drill (APD) and Multipoint Surface Use and Operations Plan are required. Drilling operations may not be conducted without an APD. (See Form 9-331C, "Application to Drill, Deepen or Plug Back.") The APD must be approved by the GS District Engineer, with concurrence by the BLM/FS. As explained in NTL-6, the APD must be accompanied by three copies of a Multipoint Surface Use and Operations Plan. The APD must be filed at least 30 days prior to the date of anticipated operations if the operator wishes to assure that critical drilling commencement dates will be met. If operations have not begun within 90 days after approval of the APD, a new APD must be filed or an extension obtained.

Copies of Form 9-331C and NTL-6 may be obtained from the GS District Engineer.

Field Inspection — Environmental Analysis

If a field inspection was not made prior to surveying and staking, an onsite inspection will normally be required following the filing of the APD with the GS District Engineer. The inspection team will include the District Engineer, the lessee or operator, a BLM/FS representative and other interested parties, such as the lessee's or operator's dirt contractor. When the inspection is on private surface, the surface owner will be included. The purpose of this field inspection is to thoroughly examine the proposed operation and develop methods to lessen adverse environmental impacts. The District Engineer will prepare an environmental analysis with assistance of BLM/FS.

9-331C "Application to Drill, Deepen or Plug Back"

3 Producing Operations

Producing wells in active oil and/or gas fields will periodically require workover operations. Before repairing, deepening or conditioning a well (i.e., work that will involve change in the original or plugged back depth, casing arrangement and/or present producing intervals including separation or commingling), the lessee or operator must submit a request to the GS District Engineer for approval to perform the required workover operations before the work is started. Required components of the request are outlined as follows:

Submit a report on Form 9-331, "Sundry Notices and Reports on Wells" or Form 9-331C, "Application for Permit to Drill, Deepen or Plug Back," as applicable. Enter on the appropriate form a detailed written statement of the plan of work. A proposed change in any such plan of work must also receive the prior approval of the District Engineer. Routine well work such as pump rods, tubing and surface production equipment repairs will not require submittal of Form 9-331 unless specifically requested by the District Engineer.

Plan for proposed surface disturbance activities, to accompany the above mentioned Forms 9-331 or 9-331C. When additional surface disturbance will result, describe any subsequent new construction, reconstruction, or alteration of

4 Abandonment

Prior Approval

Well abandonment operations may not be started without prior approval of the GS District Engineer of the "Sundry Notices and Reports on Wells," Form 9-331. In the case of newly drilled dry holes, failures and in emergency situations, oral approval may be obtained from the District Engineer subject to written confirmation by application. In such cases, the surface reclamation requirements will have been discussed with the operator and stipulated in the approved APD. Additional surface rehabilitation measures may be required.

For existing wells not having an approved surface use plan, a sketch of the disturbed area and roads to be abandoned combined with rehabilitation plans must be submitted with the Notice of Intention to Abandon. Rehabilitation requirements will be made a part of GS's approval of abandonment.

Inspection

Upon completion of abandonment and rehabilitation operations, the lessee or operator should notify the District Engineer that the location is ready for inspection. This is usually done with an additional Sundry Notice (Form 9-331). Final abandonment will not be approved until the surface rehabilitation work required by the drilling permit or abandonment notice has been completed and the required vegetation is established to the satisfaction of BLM/FS.

Water Well Conversion

The complete abandonment of a well which has encountered usable fresh water will not be approved if BLM/FS wishes to acquire the well. The lessee or operator will be reimbursed for any expenses incurred solely because the well is to be completed as a water well.



(1A) Abandoned well site.



(1B) Slope reduction on the well site.



(1C) Slope reduction and installation of water breaks completed.



(1E) Well site one year after revegetation.



(1D) Mulching of the well site.

5 Procedural Guidelines Summary

The summary on the following pages is provided to acquaint the operators with the exploration, development and abandonment phases of lease operations. It summarizes operator and Federal agency responsibilities. It briefly describes some of the field activities and normal time periods to complete each step. It includes the following seven categories:

Step 1 — Preliminary Environmental Review.

Step II — Surveying of the well site and development of the plan of operations.

Step III — Filing of Application for Permit to Drill and Multipoint Surface Use and Operations Plan.

Step IV — Operator's actions on the lease according to the approved plan.

Step V — Actions if well is a producer or dry hole.

Step VI — Abandonment after necessary rehabilitation work is completed.

Step VII — Bond release.

Procedural Guidelines

Summary Operator Action

STEP I

1. Develops preliminary map and submits to GS and BLM/FS.
2. Identifies necessary off lease land uses.
3. Attends joint field examination if requested.

STEP II

1. Operator surveys well location and centerline of access roads.
2. Identifies necessary off lease land uses.
3. Arranges for archeological clearance work.
4. Develops Multipoint Surface Use & Operations Plan. Prepares Application for Permit to Drill.
5. Acquires private surface owner agreement if appropriate.

STEP III

1. Operator files APD, Multipoint Surface Use & Operations Plan, Private Surface Owner Agreement and archeological clearance.
2. Applies for necessary off lease rights-of-way to BLM and special use permits to FS.
3. Attends joint field examination if requested by GS.

Federal Action

1. Performs preliminary environmental review.
2. Reviews for other authorizations necessary.
3. Notifies operator if site conflicts with other resource values. Notifies operator if no archeological survey is required.
4. Requests joint field examination if necessary.

1. Reviews APD and Surface Use & Operation Plan.
2. Reviews archeological survey.
3. Requests joint field examination, if appropriate.
4. Requests revision of plan if unacceptable.
5. Prepares necessary environmental analysis for APD and other Federal actions required.
6. Prepares conditions of approval to APD and Multipoint Surface Use & Operations Plan.
7. APD approved or rejected.
8. Appropriate land use authorizations issued.

Field Activities

1. Operator reviews on-the-ground site.
2. Joint field inspection, if necessary.

1. Operator surveys and stakes well site and other facilities, including centerline staking of roads.
2. Operator performs archeological survey unless notified otherwise.

1. Joint field examination performed.

Normal Time Period

1. Three days after receipt — 15 days maximum.

1. Variable; contingent upon operator schedules and availability of archeologist.

1. Usually 30 days after receipt of acceptable APD.

STEP IV

1. Performs in accordance with approved plan.
2. Files necessary reports to Geological Survey.

STEP V

1. Operator files Notice of Completion if well is a producer, plus modification to the Multipoint Surface Use and Operations Plan. Operator may need to arrange for additional archeological survey on areas affected by plan modifications.
2. Operator files Notice of Intent to Abandon if well is dry hole. This can also be for a producer that has gone dry.

STEP VI

1. Operator files Sundry Reports on a Well. Subsequent Report of Abandonment states all work is completed and ready for inspection.

STEP VII

1. Applies for release of the period of bond liability.

1. Compliance inspections.

1. Reviews on-the-ground conditions for compliance and rehabilitation needs.
2. Reviews modifications to the Multipoint Surface Use & Operations Plan.
3. Requests joint field examination, if appropriate.
4. Requests revision of plan if unacceptable.
5. Prepares necessary environmental analysis for the plan and reviews archeological survey.
6. Prepares conditions of approval to modified plan.
7. Approves or rejects plan.
8. Develops additional requirements for rehabilitation of disturbed areas for conditions of Intent to Abandon.

1. Performs compliance checks to see that all conditions are met.
2. Approves final abandonment.

1. Performs final check, if necessary.
2. Approves release of the bond liability.

1. Operator stakes well site exterior dimensions.
2. Operator begins construction and/or drilling activities.
3. Federal agencies conduct compliance inspections.

1. Joint field examination if necessary.
2. Operator performs field work to develop well and necessary support according to approved plan.
3. Operator performs field work to abandon well if this is the action.
4. Operator begins rehabilitation work on disturbed areas.

1. Operator has completed all work and site is ready for inspection.

1. Possible field inspection by Federal agencies.

1. Variable.

1. Review of plan, usually 30 days.
2. Rehabilitation work. Variable, usually one to two years depending on pit closure and vegetation establishment.

1. Final approval. Variable; usually one to two years depending on acceptable vegetation establishment.

1. Usually 30 days.

6 Agreement for Rehabilitation of Privately Owned Surface

Where the surface is privately owned, each APD or application to conduct other surface disturbance activities shall contain information concerning the private surface owner's rehabilitation requirements. An agreement with every surface owner crossed by a new access road is necessary for that portion of the road from public access to the well site.

Rehabilitation Requirements

A written agreement between the lessee or operator and the surface owner is not necessary if the operator furnishes a letter to the GS District Engineer setting forth the surface owner's rehabilitation requirements. If written proof of prior arrangements has been provided, BLM will recommend surface rehabilitation requirements to the District Engineer giving full consideration to the preferences of the landowner.

In cases where it is impossible or impractical to obtain the private surface owner's rehabilitation requirements, a letter from the lessee or operator describing the situation will be acceptable. Payment of damages in lieu of full restoration will not be an acceptable substitute for a normal cleanup and rehabilitation program.

Compliance

If the private surface owner stipulates no rehabilitation requirements or if information concerning such arrangements is not furnished, the GS District Engineer will request from BLM the recommendations regarding necessary surface restoration requirements. In such cases, the lessee or operator will be expected to comply with these rehabilitation requirements. This is subject to any subsequent and reasonable requests by the surface owner that pits, roads and other facilities be left intact.

7 Surface Use Standards

General

All operations should be conducted so as not to cause pollution or change the character of streams, lakes, ponds, waterholes, seeps or marshes. This relates directly to damages caused to fish and wildlife resources. Surface disturbance that causes active soil movement should be corrected.

The operator should take the necessary measures to avoid or minimize cultural, visual, vegetation or soil disturbance.

Roads

Detailed technical guidance for road locations and construction is available in all BLM/FS offices.

Construction

Existing roads should be used whenever possible for access. Existing roads vary from graded and drained to primitive roads with no blading or drainage structures installed.

Travel on designated unbladed routes is preferred in areas of smooth rolling grassland and low shrubs if existing roads do not provide adequate access.

If construction of a new road is necessary, the initial access to an exploratory well site may be needed as a permanent road at some later date. Therefore, alignment should be such that a permanent road can be constructed, and where possible, on routes identified in BLM/FS transportation plans. Most of these roads will usually have little residual value for future access and will eventually be abandoned. Plans for this class of road should be developed toward their eventual closure and total rehabilitation.



(2A) Trail, lightly bladed.

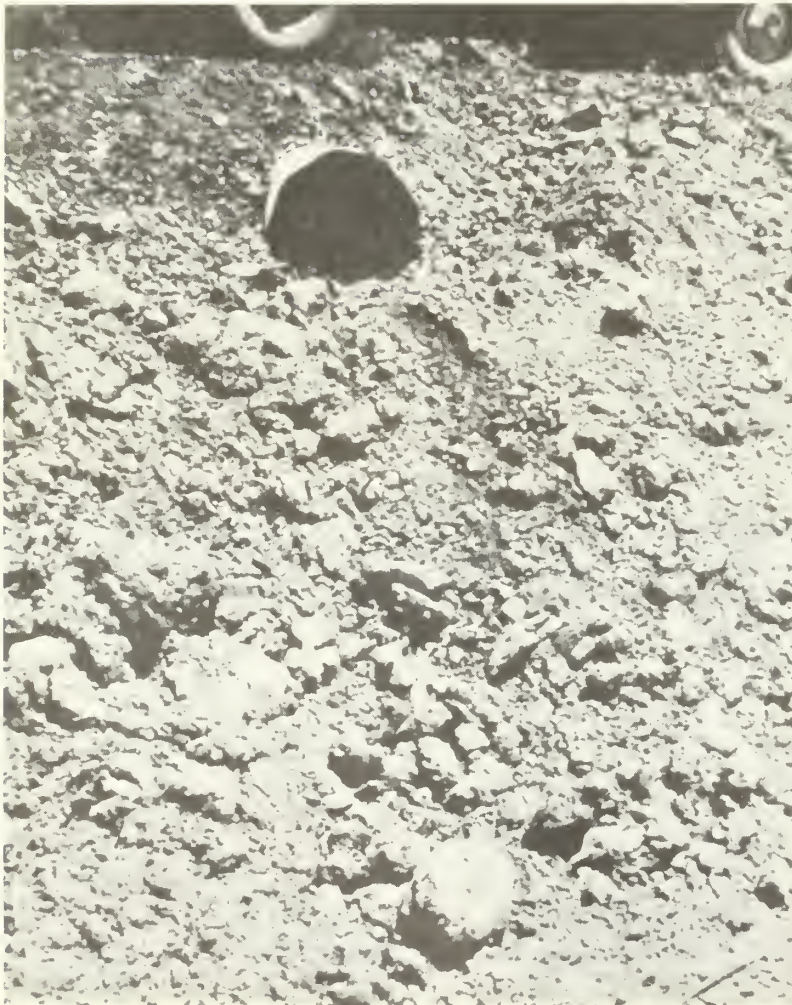


(2B) Lightly bladed trail restored.

Construction on steep hillsides and near watercourses should be avoided where alternate routes provide adequate access. Ridge tops offer the best winter access. Unnecessary disturbance of

drainages and high erosion hazard areas should be avoided.

Drainages should not be plugged by roadfills. Drainage crossings should be constructed so as not to cause siltation



(3) Improperly installed culvert.

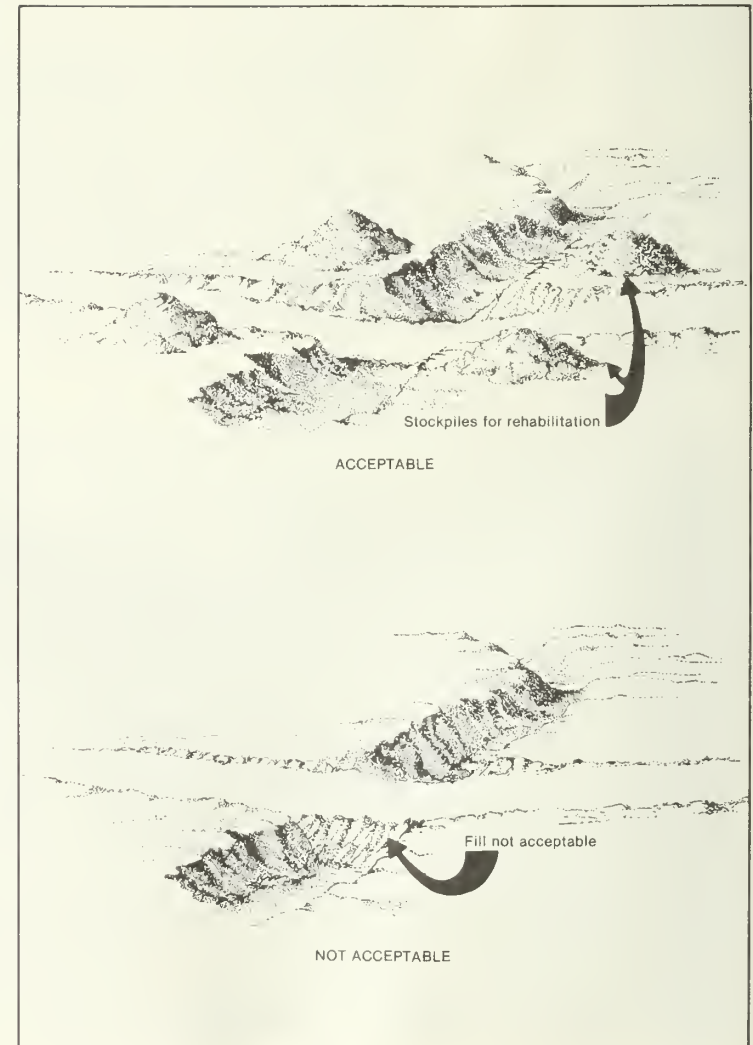
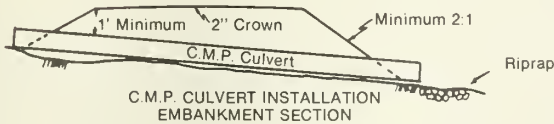
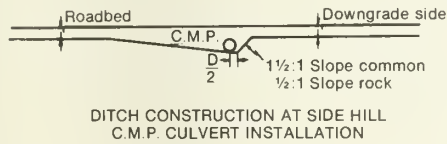
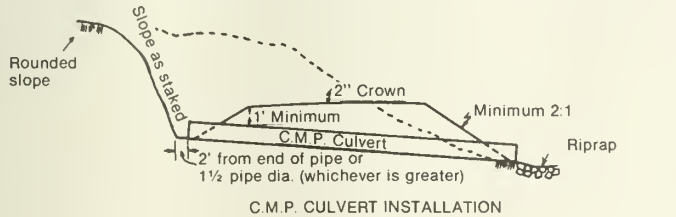


Figure 1. Typical Dry Creek Drainage Crossing

or accumulation of debris. (See Figures 1, 2 and 3.) All drainage structures must meet BLM/FS standards for temporary and permanent roads.



General Notes:

1. In bedding of C.M.P. Culverts, if the foundation is rock, excavate to depth of 8 in. below culvert grade and replace with earth cushion.
2. Minimum cover over culvert is one foot (1').
3. Minimum culvert diameter 18".
4. Minimum culvert spacing:
 - (a) 1- 2% grade — 1000 feet minimum
 - (b) 2- 4% grade — 800 feet minimum
 - (c) 4- 6% grade — 600 feet minimum
 - (d) 6- 8% grade — 400 feet minimum
 - (e) 8-10% grade — 250 feet minimum
5. Maximum grade 10%.

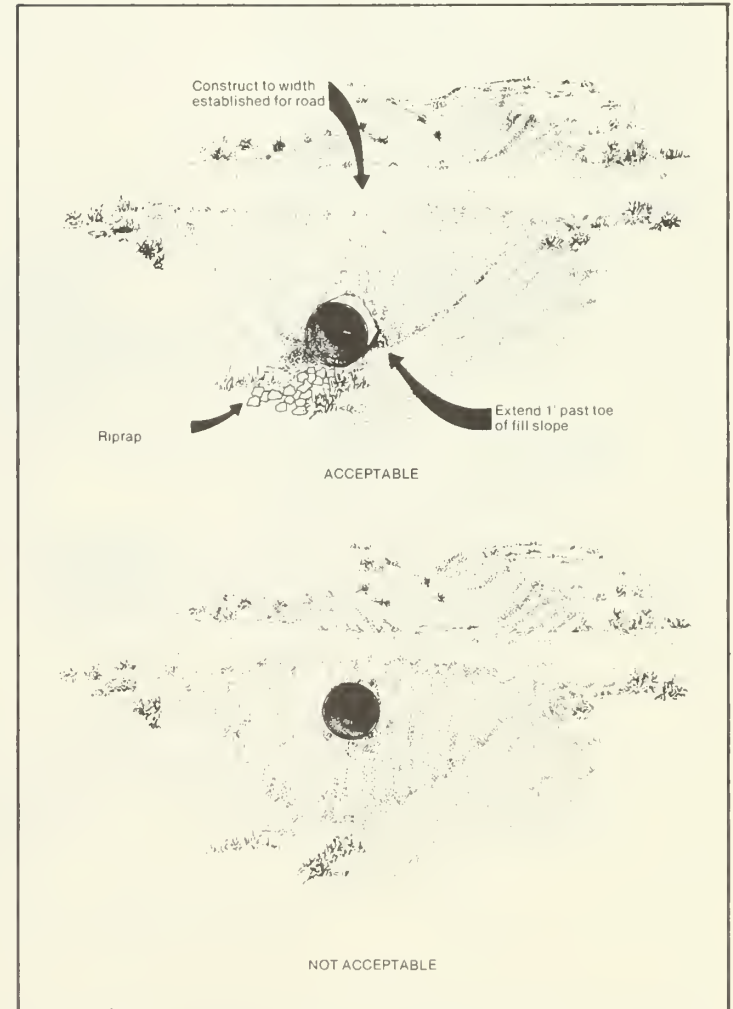


Figure 2. Typical Culvert Construction

Figure 3. Typical Culvert Installation

Long, slight to moderate road grades should contain "thank-u-mams," a common term for drainage dips. They may be installed after temporary roadbeds have been constructed or during construction of permanent roads. (See Figure 4.)

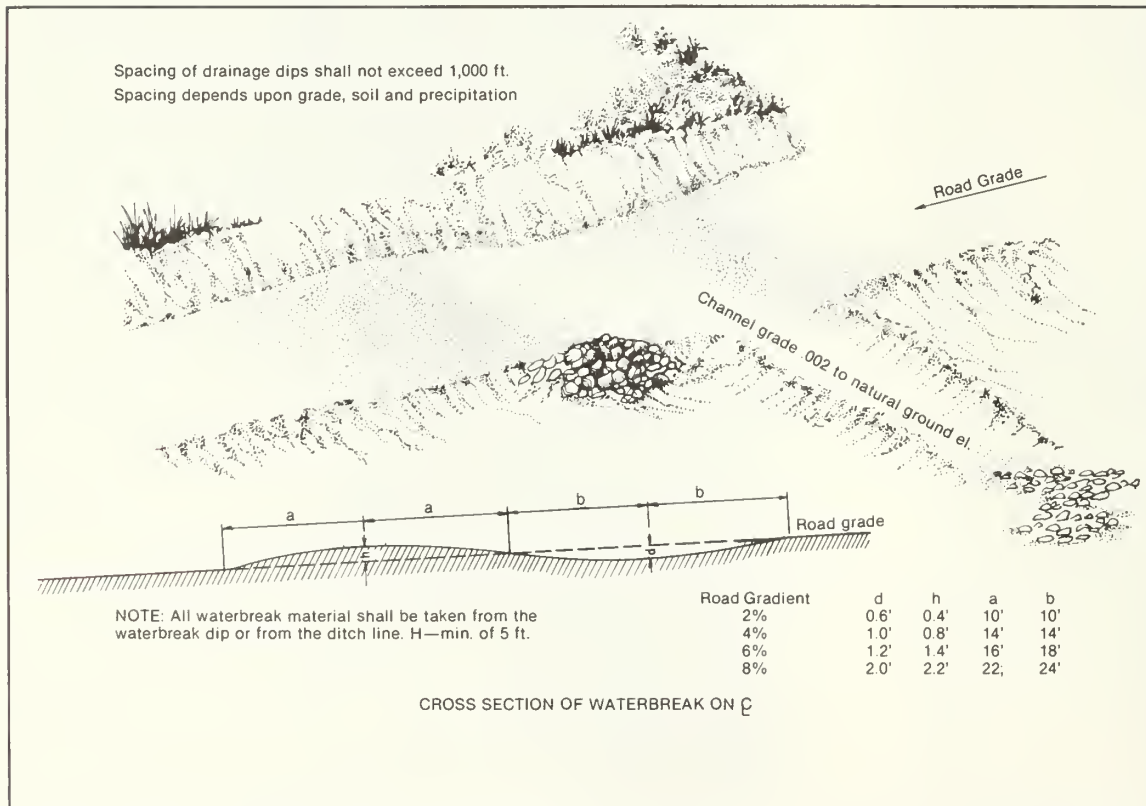


Figure 4. "Thank-u-Mam" for Slight to Moderate Slope for Access Roads

Temporary Roads

Temporary roads should be planned for only the minimum width needed for exploration. They should be kept approximately 16 feet wide to prevent unnecessary disturbance. (See Figure 5.) They should follow natural contours to minimize cut and fill. Alignment should have a grade no greater than eight percent.

Cuts and fills on temporary roads should be designed to minimize surface disturbance. When constructing a road that involves cuts and fills, consider the character of cut material and depth of cut. Also, consider where the fill material will be deposited. It should not be cast over hilltops or into drainages. Cut slopes should normally be no steeper than 3:1 and fill slopes no steeper than 2:1. When construction is necessary, surface soil materials should be windrowed and stockpiled for later rehabilitation of the roadway. Stockpiles should be located on the uphill side of the road. If surface soil material is expected to be stockpiled for more than one year, the stockpile should be seeded or otherwise protected from wind and water erosion. The stockpile should be marked or segregated to avoid loss or mixing with other subsurface materials.

Lower water crossings are usually preferred in temporary roads. (See Figure 1.)

Care should be used to avoid unnecessary damage to vegetation.

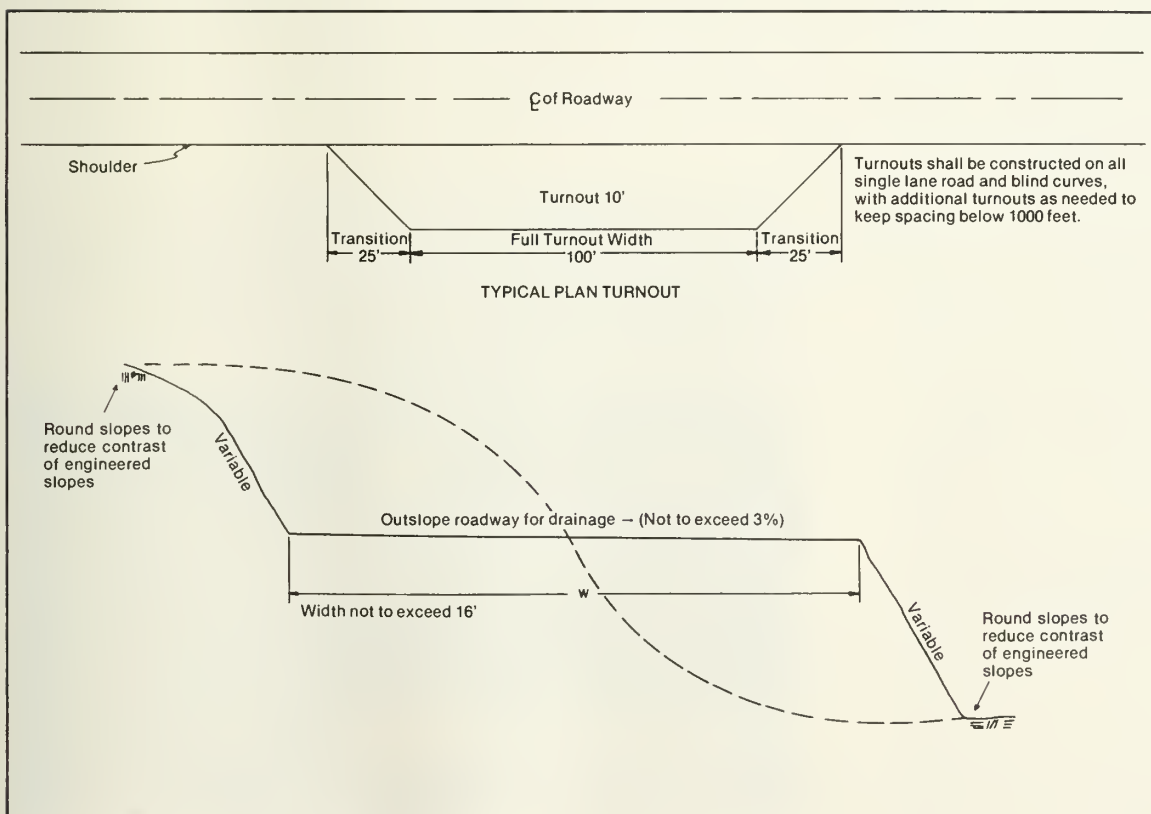


Figure 5. Typical Temporary Service Road

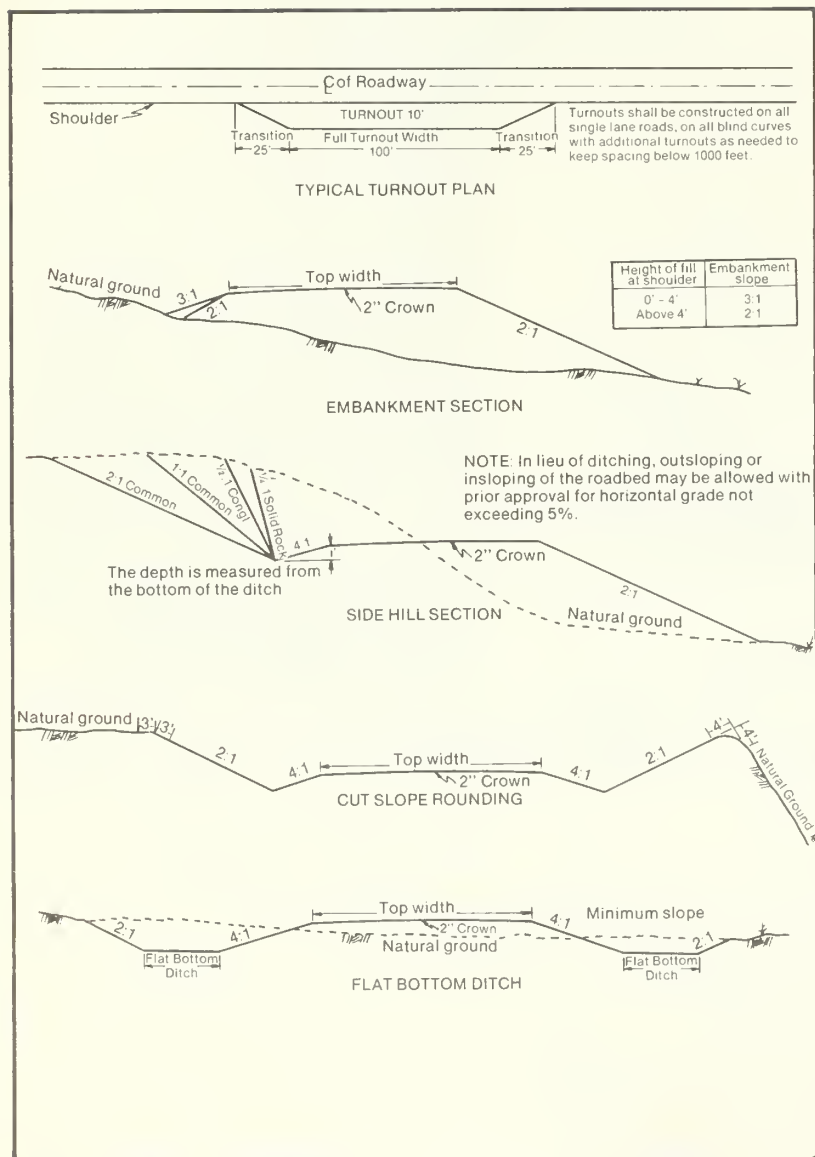


Figure 6. Typical Road Section

Permanent Roads

Access roads should be limited to one main route to serve the lease area, with one maintained road to each well.

Permanent road designs must meet the specifications of BLM/FS. (See Figure 6.) Upgrading of temporary roads may include, but not be limited to, ditching, draining, installation of culverts, graveling, crowning or capping of the roadbed. (See Figures 2, 3 and 7.)



(4) Don't place a culvert where a low water crossing will work better.

Roads should take advantage of existing or foreseeable routes. They should follow natural contours as much as possible and avoid extensive cuts and fills.

Clearing of trees and shrubs should be kept to a minimum and provisions made in the plan for disposal of the material.

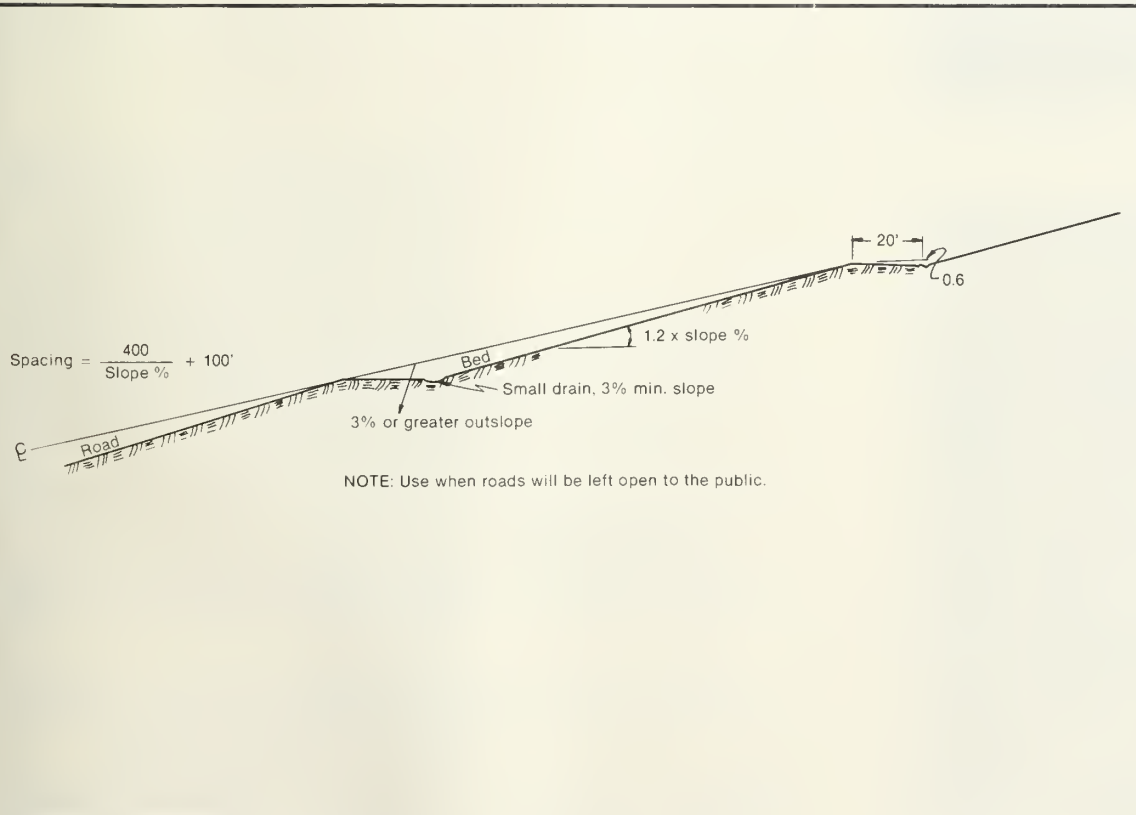


Figure 7. Broad-Based Drainage Dip
Use for permanent roads where gradient does not exceed 6%



(5A) Properly installed drainage ditch diversions.



(5B) Properly installed concrete slab.

Permanent roads should be constructed and maintained in good condition. Adequate water drainage should be provided to minimize erosion. Erosion of drainage ditches should be prevented by diverting water at frequent intervals. (See photo 5A.)

Surface soil material should be stockpiled during upgrading or construction and redistributed on cut and fill slopes to aid revegetation.

Construction of roads to grades steeper than eight percent should be avoided.

Maintenance

When a road crossing causes siltation or accumulation of debris in a drainage, the crossing should be reworked. (See Figure 1.)

The operator should regularly maintain all roads used for access to the lease operation. A maintenance plan may be required. A regular maintenance program may include, but not be limited to, upgrading of existing roads, blading, ditching, culvert, drainage installation and gravelling or capping of the roadbed.

Abandonment and Rehabilitation

When a road is to be abandoned, rehabilitation may consist of scarifying, waterbarring and barricading. Cut and fill slopes should be reduced to as gentle a grade as the topography permits. Stockpiled soil, debris and fill materials should be replaced on the roadbed and cut slopes so as to conform to the topography. All disturbed areas should be revegetated where practical. (See Figures 8 and 9.) It is desirable to use native perennial species.

Waterbars should be constructed and rehabilitation practices should be the same as those explained above.

Pipelines and Flowlines Construction

Steep hillsides and water courses should be avoided in the location of pipelines and flowlines. Flowline routes should take advantage of road locations to minimize surface disturbance.



(6A) Example of a rehabilitated road.



(6B) Completed reclamation of roadbed with cut and fill slopes reduced, stockpiled soil material replaced, and roadbed waterbarred and seeded.

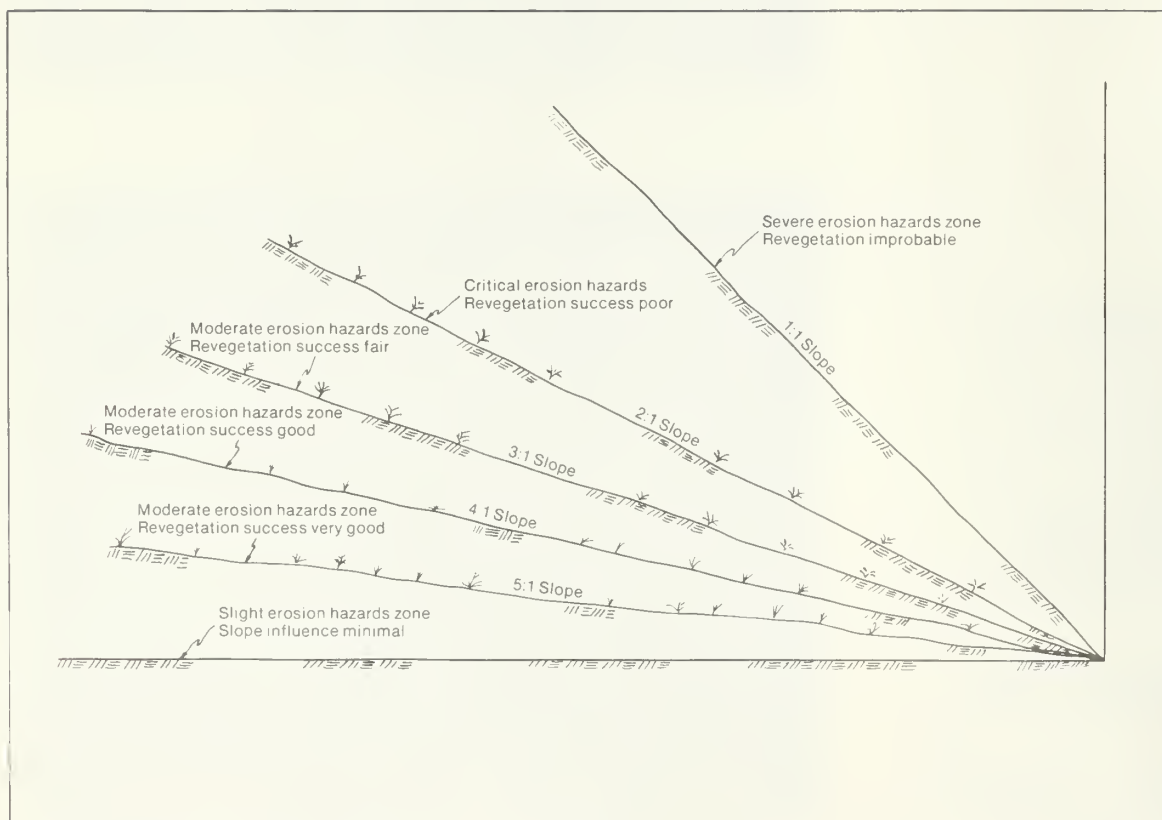


Figure 8. Influence of Percent Slope on Revegetation

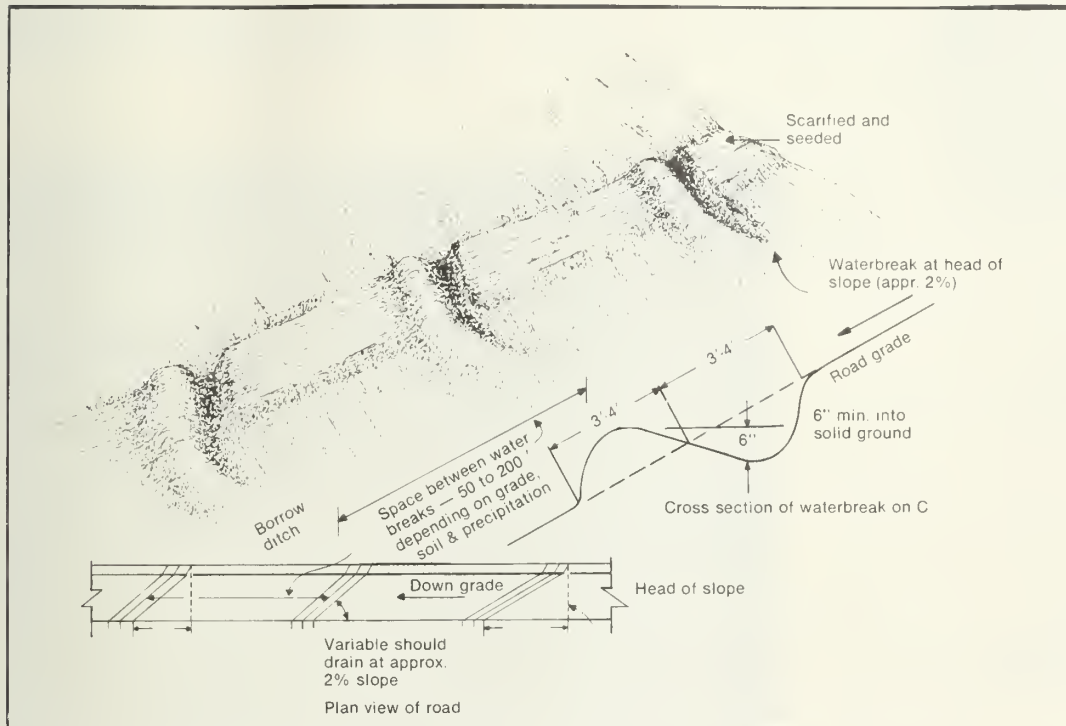


Figure 9. Waterbreak Construction
For access roads and disturbed slopes that will be closed to traffic after operator use

Blading of pipeline routes located on gentle topography need only to have brush and surface irregularities removed and smoothed leaving most of the understory vegetation undisturbed. Graders are recommended for clearing these routes because blade depths can be more easily controlled.

Cuts and fills on pipelines should be made only where necessary. Cut and fill slopes should normally be no steeper than 3:1 and graded to conform to the adjacent terrain.

Pipeline routes should be graded to conform to the adjacent terrain, waterbarred and reseeded.

When clearing is necessary, the width disturbed should be kept to a minimum. Bladed materials should be placed back into the cleared route upon completion of construction.

Pipeline construction should not block, dam or change the natural course of any drainage. Suspended pipelines should provide adequate clearance for runoff.

Surface soil material should be stockpiled to the side of the routes where cuts and fills or other surface disturbance occur during pipeline construction. Surface soil material should be segregated and should not be mixed or covered with subsurface material.

Maintenance

Pipeline routes shall not be used for roads unless properly constructed and authorized for such purposes.

Pipeline trenches should be compacted during backfilling. These trenches should be maintained in order to correct settlement and prevent erosion.

Waterbars and other erosion control devices should be repaired as necessary.

Pumping stations should be kept in a neat and well-maintained condition.

Abandonment and Rehabilitation

Reclamation and abandonment of pipelines and flowlines may involve: replacing fill in the original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil material, waterbarring and revegetating in accordance with rehabilitation practices contained under "Abandonment and Rehabilitation," page 29. (See Figure 10.)

Waterbar construction and rehabilitation practices should be the same as those explained above.

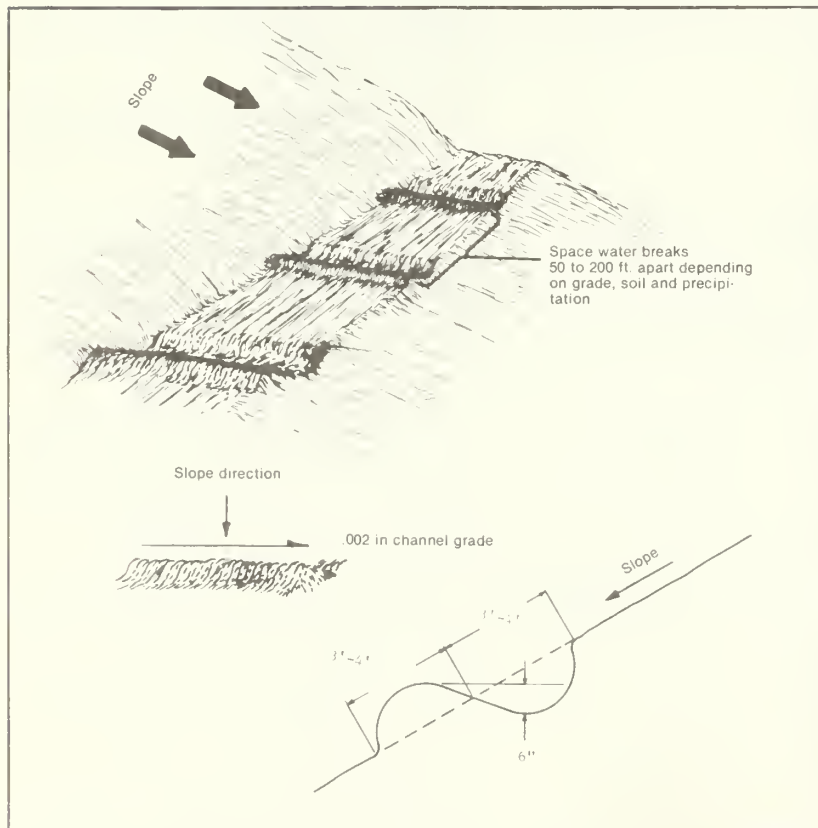


Figure 10. Waterbreak Construction For Pipeline and Buried Cables



(7) Example of pipeline needing maintenance.

Selecting Locations for Well Sites, etc.

In planning for well sites, tank batteries, sump, reserve and mud pits, and pumping stations, the operator should select locations that involve the least disruption to scenic values and other surface resources. The operator should employ construction techniques and design practices, including selection of material, camouflage techniques and rehabilitation practices that will preserve scenic and aesthetic qualities. The following guidelines can be used by operators to assist in minimizing surface disturbance and as an aid in the maintenance of the best possible conditions for rehabilitation.

Construction

Avoid steep hillsides. Locate the site on the most nearly level location obtainable that will accommodate the intended use.

View the site location as to how it will affect the road location. What may be gained on a good location may be lost from an adverse access route.

Adjust the site layout to conform to the best topographic situation. Deep vertical cuts and steep long fill slopes should be avoided. All cut and fill slopes should be constructed to the least percent slope practical.

Avoid excessive disturbance of drainage bottoms and locate reserve pits away from any watercourse. Reserve pits may have to be lined to prevent contamination of groundwater or soil. (See Figure 11 for construction in areas of steep slopes.)

Surface water should not be allowed to accumulate on such sites in order to prevent excessive erosion. Runoff water can be controlled by installing waterbars, terraces or diversion ditches on the uphill sides of facilities. (See Figures 12, 13 and 14.)

Excavations used for the permanent impoundment of usable water should be graded to establish safe access for humans, livestock and wildlife.

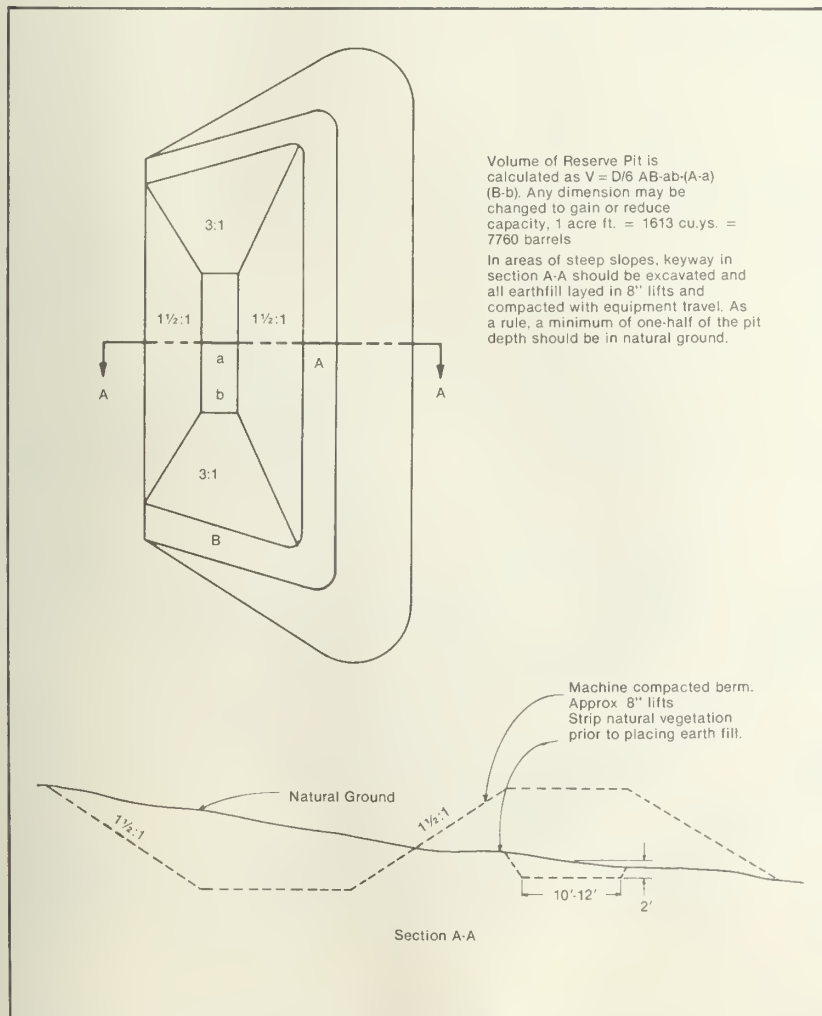


Figure 11. Reserve Pit Construction in Areas of Environmental Concern

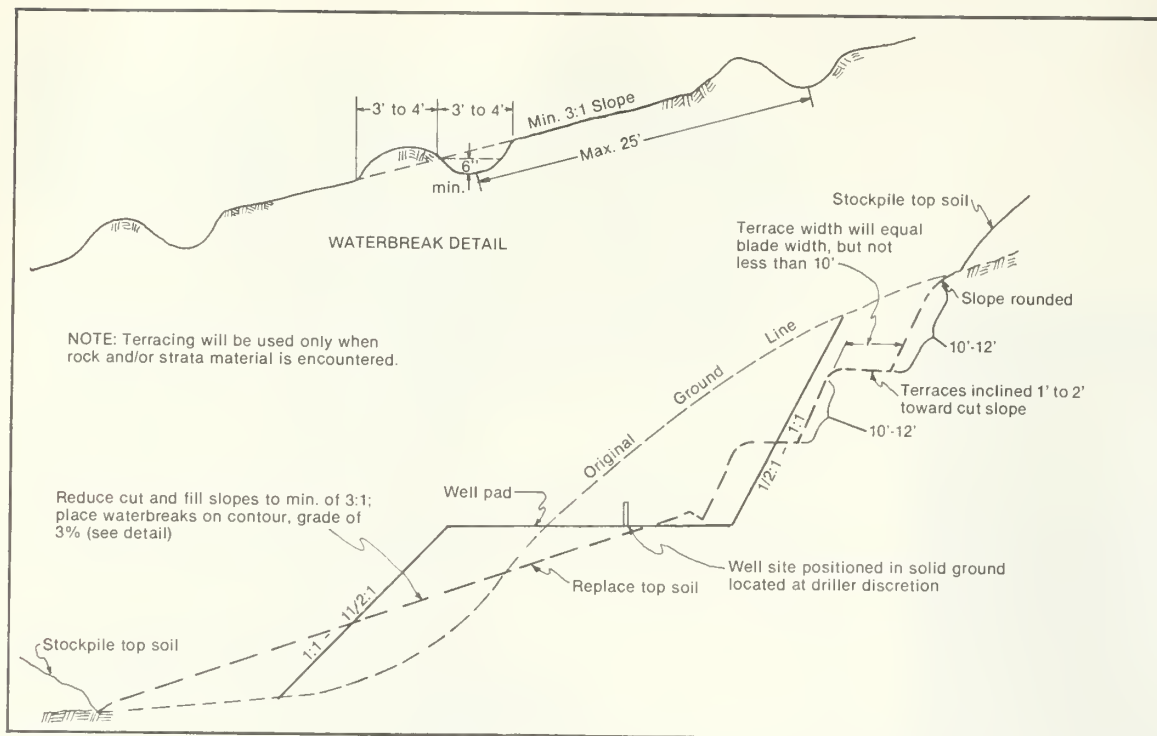
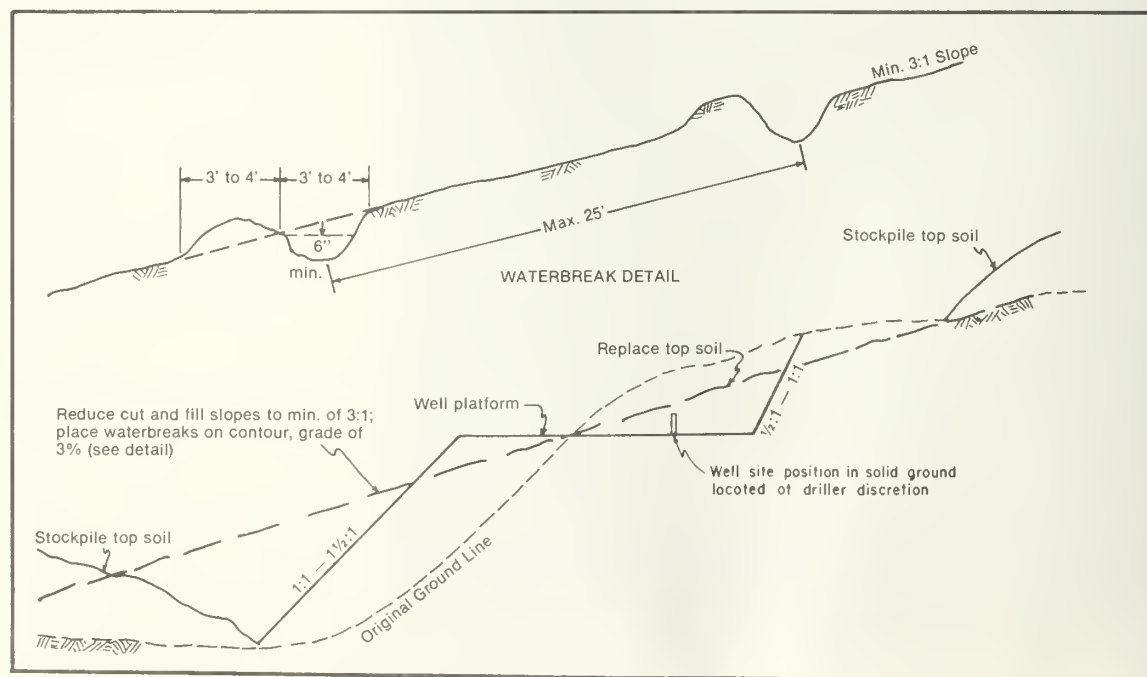


Figure 12. Well Site Restoration and Stabilization by Terracing Cut Slopes

Figure 13. Well Site Restoration and Stabilization by Slope Reduction



Abandonment and Rehabilitation

Rehabilitation should be planned on the sites of both producing and abandoned wells. The entire site or portion thereof, not required for the continued operation of the well, should be restored as nearly as practical to its original condition. Final grading of backfilled and cut slopes should be done to prevent erosion and encourage establishment of vegetation. (See Figures 12, 13 and 14.)

Cut and fill slopes should be reduced and graded to conform to the site to the adjacent terrain. The disturbed sites should be prepared to provide a seedbed for reestablishment of desirable vegetation and reshaped to blend with the natural contour. Such practices may include contouring, terracing, gouging, scarifying, mulching, fertilizing, seeding and planting.

All excavations, pits or drill holes should be closed by backfilling when they are dry and made to conform to the surrounding terrain. Waterbars and terracing may be necessary to prevent erosion of fill material.

Rehabilitation practices should be the same as those explained in "Abandonment and Rehabilitation" section, page 29.

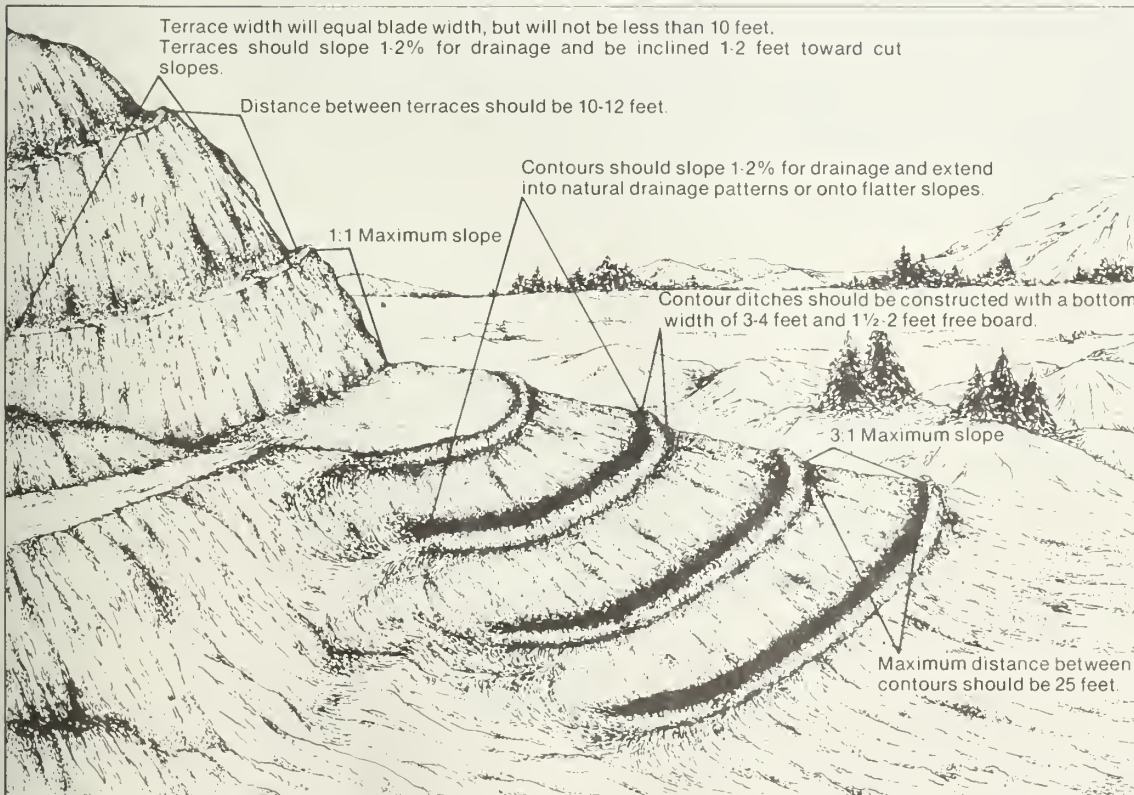


Figure 14. Well Site Restoration and Stabilization by Terracing Cut Slopes
Fill slope shows waterbreaks on reduced slope



Temporarily rehabilitated well site

Other Guidelines

Surface buildings, supporting facilities and other structures which are not required for present or future operations should be removed upon termination of use.

All improvements, including fences, gates, cattleguards, roads, trails, pipelines, bridges, water developments and control structures will be maintained in a serviceable and safe condition. (See Figures 15 and 16.)

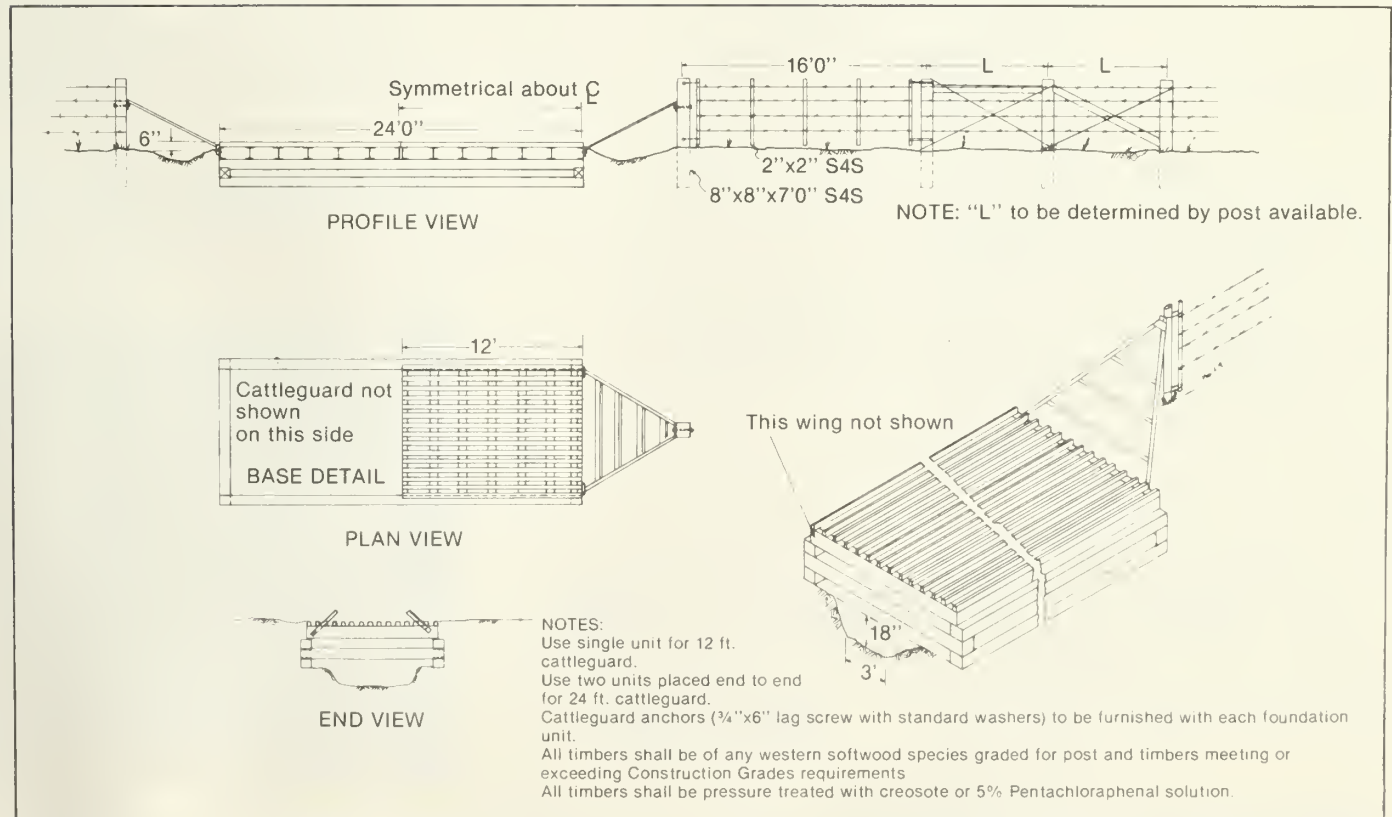


Figure 15. Typical Wood Base Cattleguard

Fires Proper precautions should be taken at all times to prevent or suppress fires. Range or forest fires should be reported to the BLM/FS office. All other fires or explosions which cause damage to property, equipment, loss of oil or gas or result in injuries to personnel, should be reported to the GS District Engineer.

Survey Monuments

The GS reporting procedure is explained in Notice to Lessees (NTL-3), "Undesirable Events."

All survey monuments, witness corners, reference monuments and bearing trees should be protected against destruction, obliteration or damage. Any markers so affected must be reestablished at the lessee's expense in accordance with accepted BLM survey practices as set forth in the "Manual of Surveying Instructions for the Survey of the Public Lands of the United States."

Trash

A totally enclosed burn cage should be provided for all trash.

All garbage, debris and foreign matter should be removed to an established and recognized sanitary landfill or other recognized facility. Roads and campsites should be kept clean. Onsite disposal may be approved.

Cultural Resources

Federal lessees are required to provide a cultural resource inventory for any area where surface disturbance is planned. These inventories are required prior to the approval of any surface disturbing activity. They are to be provided at the lessee's expense. Inventories are required for Federally owned surface and for privately owned surface overlying Federal minerals.

Normally, it is not the responsibility of the lessee to finance a total site analysis and interpretive study. Only identification and proper documentation of the cultural resource site by an approved cultural resources professional is required.

The objective of an inventory is to identify cultural resource sites of potential value that could be destroyed by dirt moving equipment. Whenever possible, avoidance of identified cultural resource sites by relocating proposed well sites, roads, etc., is the procedure recommended to mitigate potential impacts.

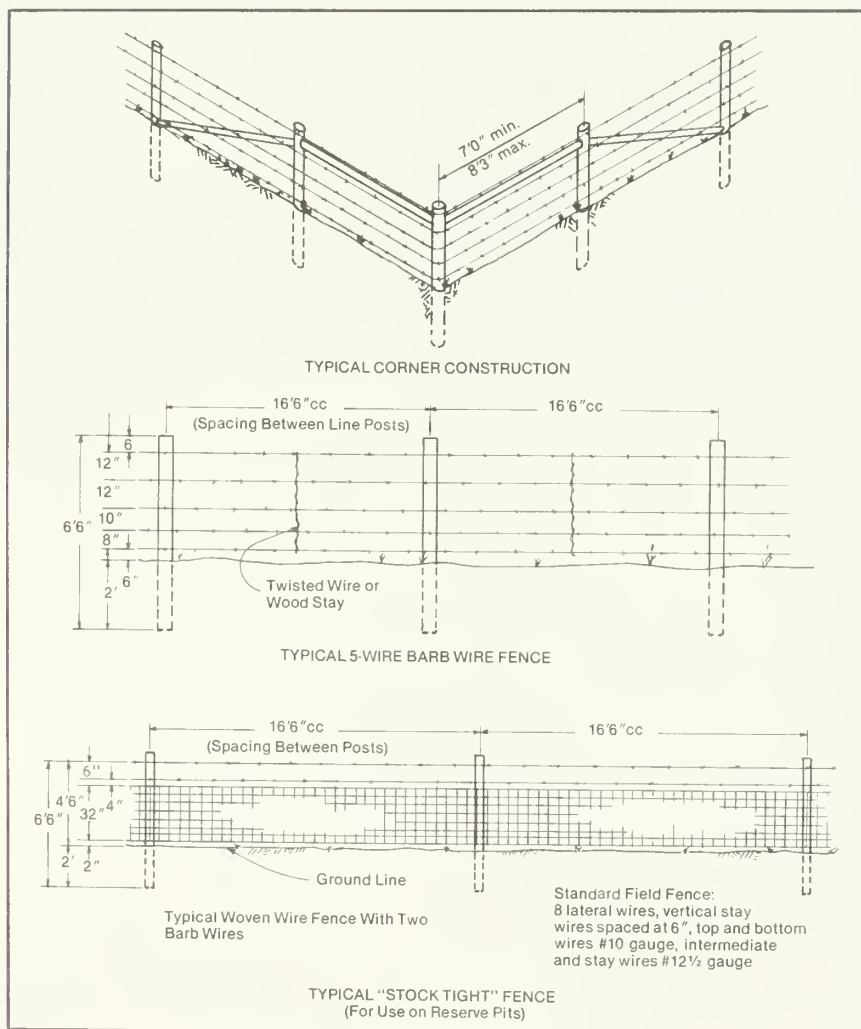


Figure 16. Typical Fence Construction

Therefore, it is advisable to inventory alternate locations.

When situations arise where it is impossible to avoid identified cultural resource sites, the excavation, collection, analysis and interpretation by an approved cultural resources contractor may be required.

Weather is a critical factor in the planning for cultural resource inventories. Satisfactory cultural resource inventories of areas subject to heavy snowfall are difficult to obtain during the winter months. Operators should take this into account in their long-range planning so that ample lead time is provided.

Historical, paleontological and archeological resources discovered during operations are to be protected from dis-

turbance by the lessee, his employees, contractors, subcontractors and their respective employees. Detailed technical guidance for protection of cultural and paleontological resources is available in all BLM/FS offices. Upon discovery of any evidence of items of historical, paleontological or archeological value, operations should immediately cease and the BLM District Manager/FS District Ranger and the GS District Engineer notified.

Timber

If it is necessary to remove timber from Federal lands administered by BLM/FS, all merchantable timber must be purchased by the operator prior to cutting, at the appraised price determined by BLM/FS.

Permit to Burn

Burning of solid or liquid wastes usually requires a burning permit. The permit must be obtained from the State's air quality agency.

Release of Water

Any release of production water on or across the land will need approval by the District Engineer and BLM/FS in accordance with Notice to Lessees (NTL-2B), "Disposal of Produced Water."

Other Hazards

Mud, separation pits and other containments that are used during the exploration or operation of the lease for the storage of oil and other hazardous materials should be adequately fenced, posted or covered. Additional protective measures may be needed to minimize hazards and prevent access to humans, livestock, waterfowl and other wildlife. The pits should be allowed to dry before backfilling and rehabilitation.

Spills

All production and storage facilities must have adequate protection from spills. The Spill Prevention Control and Countermeasure Plan required by the Environmental Protection Agency must be available for inspection at all the appropriate field offices.

All spills must be reported to the GS District Engineer. GS's reporting proce-



(9) Example of stockpiled surface material at a well site.

Stockpile Surface Soil

dure is explained in Notice to Lessees (NTL-3), "Undesirable Events."

Surface soil material, if available, should be stripped from all areas where surface disturbance is necessary and stockpiled in a manner and location that will allow easy replacement. These stockpiles should be protected from loss.

The depth of surface soil material to be removed and stockpiled may be specified by BLM/FS. After reshaping the site, soil material should be distributed to a uniform depth that will allow the establishment of desirable vegetation. The disturbed areas should be scarified prior to replacement of surface soil material.



- (10) Example of cut and fill slopes that have been reduced to a gentle slope and graded to conform to the adjacent terrain. Due to the steep slope the pipeline is extensively waterbarred.

Revegetation

Disturbed areas should be revegetated after the site has been satisfactorily prepared. Site preparation may include contour furrowing, terracing, reduction of steep cut and fill slopes, waterbarring, etc. The operator will be advised as to species, methods of revegetation and seasons to plant. Seeding should be done by drilling on the contour whenever practical. Seeding and/or planting should be repeated until satisfactory revegetation is accomplished, as determined by BLM/FS. Mulching, fertilizing, fencing, or other practices may be required. (See Figures 8, 12, 13 and 14.)

Waterbars

The operator will be required to construct waterbars on abandoned roads and pipeline routes. General guidelines for installation of waterbars are: less than 2% grade — 200' spacing, 2%-4% grade — 100' spacing, 4%-5% grade — 75' spacing, greater than 5% grade — 50' spacing. Unstable soils may require a closer spacing, whereas the spacing may be greater on stable soils and rock outcroppings. The waterbars should be constructed to drain freely to the natural ground level and to prevent siltation and clogging. (See Figure 9.)

Visual Resources

For all activities, which alter landforms, disturb vegetation or require temporary or permanent structures, the operator should strive to maintain the scenic qualities of the area. Site specific practices may be required by BLM or FS.

Additional Guidelines

Supplemental guidelines and methods may be available that reflect local site and geographic conditions. These guidelines or methods may be obtained from the local BLM/FS office. Technical advances in rehabilitation practices are continually being developed that may be successfully applied to oil and gas construction practices. Additional guidelines are continually being developed.

GEOLOGICAL SURVEY DISTRICT MAPS

Conservation Division, U.S. Geological Survey, USDI

One of the primary functions of the Conservation Division is the supervision of operations incident to the prospecting, development, and production of minerals on Federal, Indian, Naval Petroleum Reserve Lands and the Outer Continental Shelf under lease, license and prospecting permits. The Area Oil and Gas Supervisors and District Oil and Gas Engineers oversee industry operations for the prospecting, development and production of crude oil, natural gas and products extracted from natural gas on these lands. The addresses of the GS Area and District Offices accompany each District map.

NORTHERN ROCKY MOUNTAIN AREA



■ **Regional Office**
Office of the Conservation Manager
USGS, Conservation Division
7200 West Alameda Avenue
Lakewood, CO 80226
303-234-2855

● **Area Office**
Area Supervisor
P.O. Box 2859
Casper, WY 82602
307-265-5550 Ext 5405

• **District Offices**
District Engineer
P.O. Box 2550
Billings, MT 59103
406-245-6711

District Engineer
P.O. Box 2859
Casper, WY 82602
307-265-5550 Ext 5247

District Engineer
P.O. Box 219
Newcastle, WY 82701
307-746-2737

District Engineer
P.O. Box 1170
Rock Springs, WY 82901
307-362-6422

District Engineer
8426 Federal Building
125 South State Street
Salt Lake City, UT 84138
801-524-5650

District Engineer
P.O. Box 590
Thermopolis, WY 82443
307-864-2156

----- District Boundaries

----- State Boundaries

SOUTHERN ROCKY MOUNTAIN AREA



● Area Office

Area Oil and Gas Supervisor
USGS, Conservation Division
505 Marquette NW Room 815
Albuquerque, NM 87102
505-766-2841

▲ Area Operations Office

Assistant Area Oil and Gas Supervisor
USGS, Conservation Division
P.O. Drawer 1857
Roswell, NM 88201
505-622-1332

• District Offices

District Oil and Gas Engineer
USGS, Conservation Division
Drawer U
Artesia, NM 88210
505-746-4841

District Oil and Gas Engineer
USGS, Conservation Division
P.O. Box 1809
Durango, CO 81301
303-247-5144

District Oil and Gas Engineer
USGS, Conservation Division
P.O. Box 959
Farmington, NM 87401
505-325-4572

District Oil and Gas Engineer
USGS, Conservation Division
P.O. Box 1157
Hobbs, NM 88240
505-393-3612

----- USGS District Boundaries

----- State Boundaries

NOTE: That portion of the Navajo Reservation in Arizona is supervised by administrative agreement with the Pacific Area.



● **Area Office**

Area Oil and Gas Supervisor
USGS, Conservation Division
6136 East 32nd Place
Tulsa, OK 74135
918-581-7631

▲ **District Office**

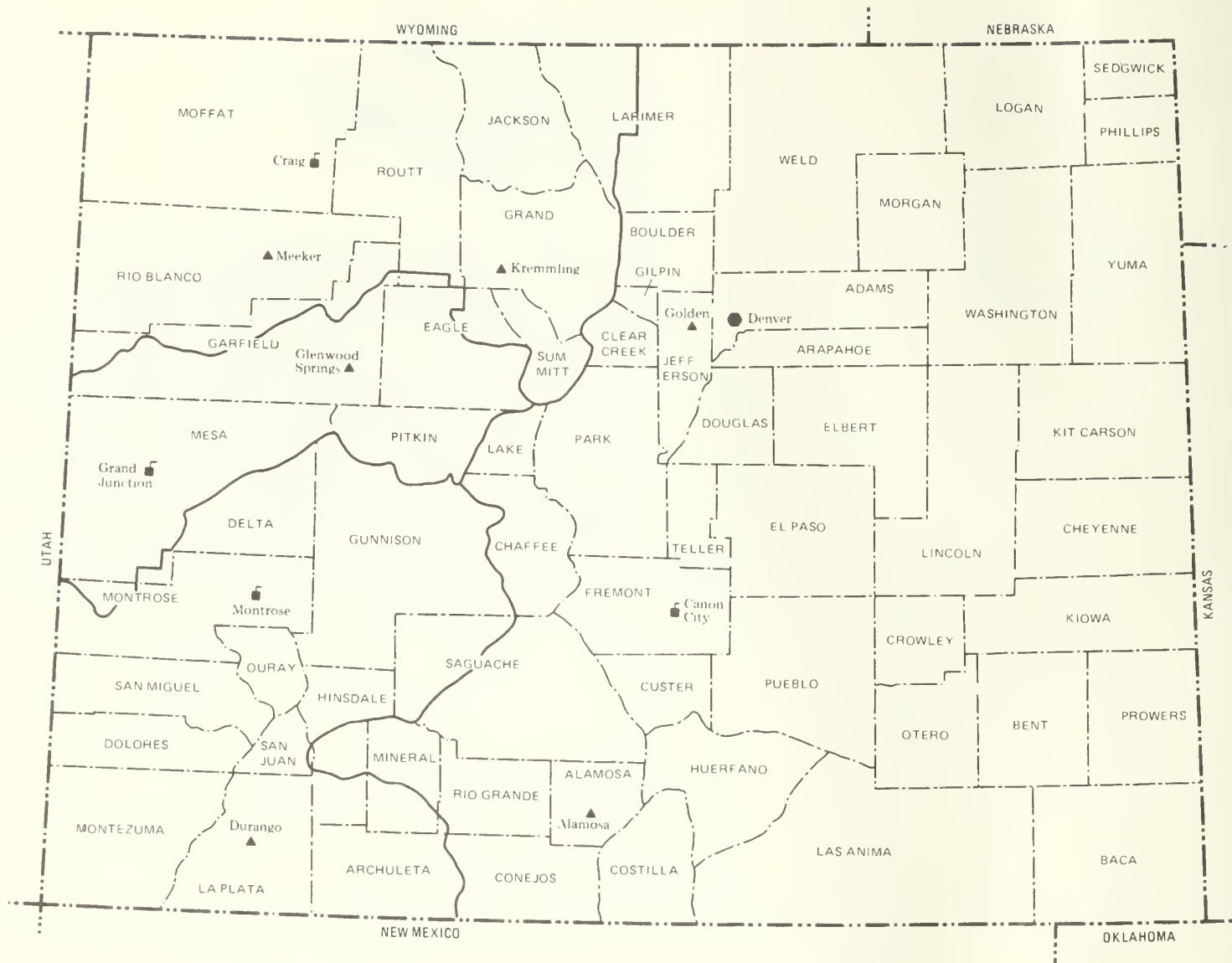
District Engineer
Room 922, Federal Building
200 N.W. 5th Street
Oklahoma City, OK 73102
405-231-4806

BUREAU OF LAND MANAGEMENT STATE OFFICES AND MAPS

Bureau of Land Management, U.S. Department of the Interior

The BLM administers the unappropriated Federally owned public and acquired lands and coordinates rehabilitation agreements on privately owned lands (surface) over Federally owned mineral deposits. The BLM District Manager is responsible for the administration of the lands and the agreements for rehabilitation of privately owned surface within the area outlined on the following maps. The addresses of the BLM District Offices accompany each State map.

STATE OF COLORADO



- State Office
- District Office
- ▲ Area Office

- BLM District Boundaries
- - - County Boundaries

BUREAU OF LAND MANAGEMENT
COLORADO
STATE OFFICE

Colorado State Bank Building, Room 700
1600 Broadway
Denver, CO 80202
Telephone: 303-837-3814

DISTRICT OFFICES

Canon City District Office

3080 East Main Street
Canon City, CO 81212
303-275-7494

Northeast Res. Area Hdqs.

1010 Tenth Street
Golden, CO 80401
303-234-4988

San Luis Res. Area Hdqs.

1921 State Street
Alamosa, CO 81101
303-589-4975

Royal Gorge Res. Area*

Craig District Office

P.O. Box 284
455 Emerson Street
Craig, CO 81625
303-824-2101

Kremmling Res. Area Hdqs.

P.O. Box 87
Kremmling, CO 80459
303-724-3438

White River Res. Area Hdqs.

P.O. Box 957
Meeker, CO 81641
303-878-5084

Little Snake Res. Area*

Grand Junction District Office

764 Horizon Drive
Grand Junction, CO 81501
303-243-6552

Glenwood Springs Res. Area Hdqs.

113 Ninth Street
P.O. Box 1009
Glenwood Springs, CO 81601
303-945-5478

Grand Junction Res. Area*

Montrose District Office

Highway 550 South
P.O. Box 1269
Montrose, CO 81401
303-249-7791

San Juan Res. Area Hdqs.

701 Camino del Rio
Durango, CO 81301
303-247-4082

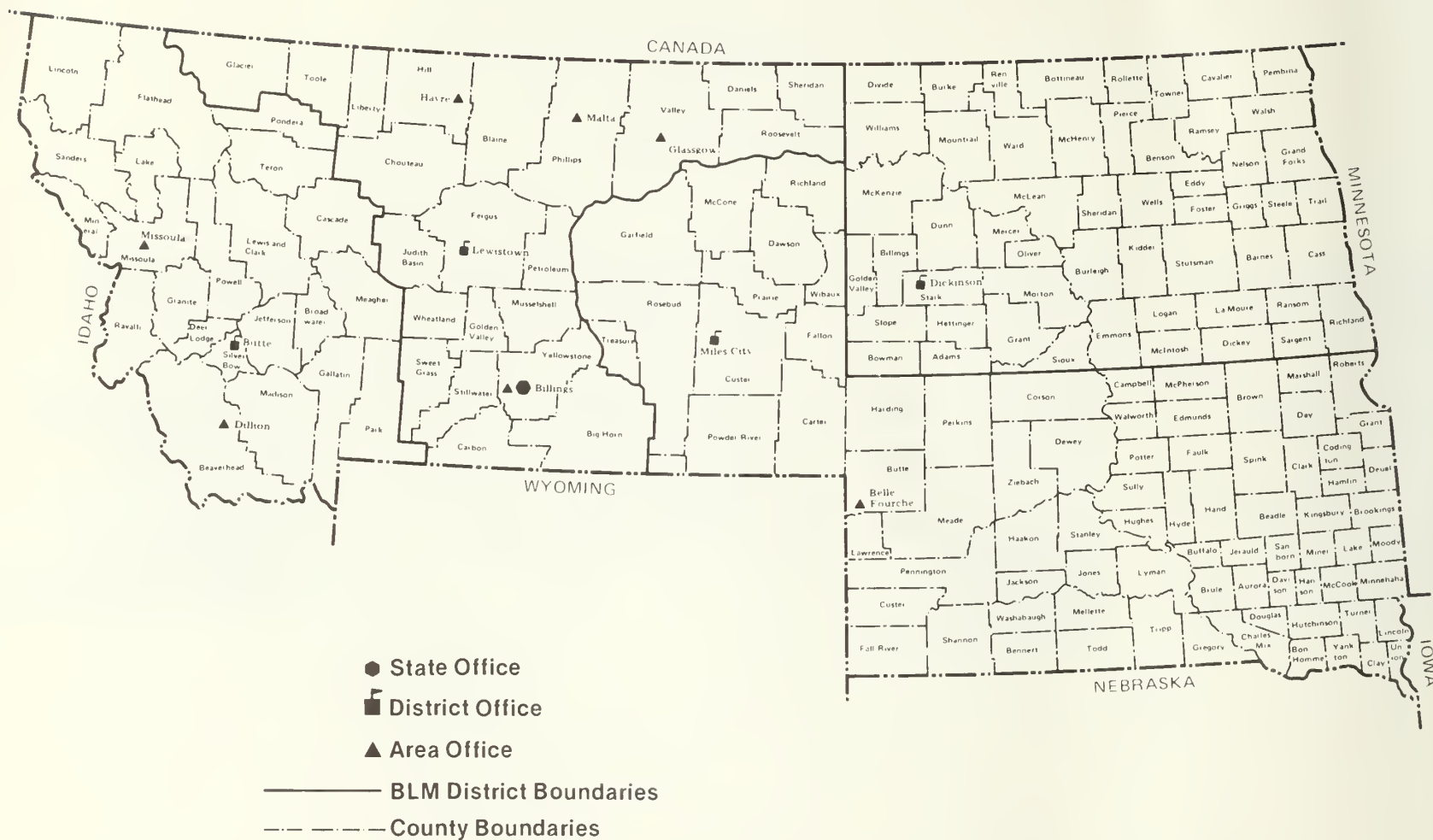
Gunnison Res. Area*

San Miguel Res. Area*

Uncompahgre Basin Res. Area*

* Located at District Office

STATES OF MONTANA, NORTH DAKOTA, AND SOUTH DAKOTA



BUREAU OF LAND MANAGEMENT
MONTANA
STATE OFFICE

222 N. 32nd Street
P.O. Box 30157
Billings, MT 59107
Telephone: 406-657-6461

DISTRICT OFFICES

Butte District Office

220 North Alaska
P.O. Box 308
Butte, MT 59701
406-723-6561

Headwaters Res. Area*

Dillon Res. Area Hdqs.

Ibey Bldg. N. Dillon
P.O. Box 1048
Dillon, MT 59725
406-683-2337

Garnet Res. Area Hdqs.

1819 Holborn
P.O. Box 4427
Missoula, MT 59801
406-329-3686

Miles City District Office

West of Miles City
P.O. Box 940
Miles City, MT 59301
406-232-4331

Big Dry Res. Area*

Power River Res. Area*

South Dakota Res. Area Hdqs.

310 Roundup Street
Belle Fourche, SD 57717
605-892-2526

Dickinson District Office

Pulver Hall
P.O. Box 1229
Dickinson, ND 58601
701-225-9148

Lewistown District Office

Bank Electric Bldg.
Drawer 1160
Lewistown, MT 59457
406-538-7461

Judith Res. Area*

Phillips Res. Area Hdqs.

501 South 2nd Street, East
P.O. Box B
Malta, MT 59538
406-654-1240

Billings Res. Area Hdqs.

810 East Main Street
Billings, MT 59101
406-657-6262

Havre Res. Area Hdqs.

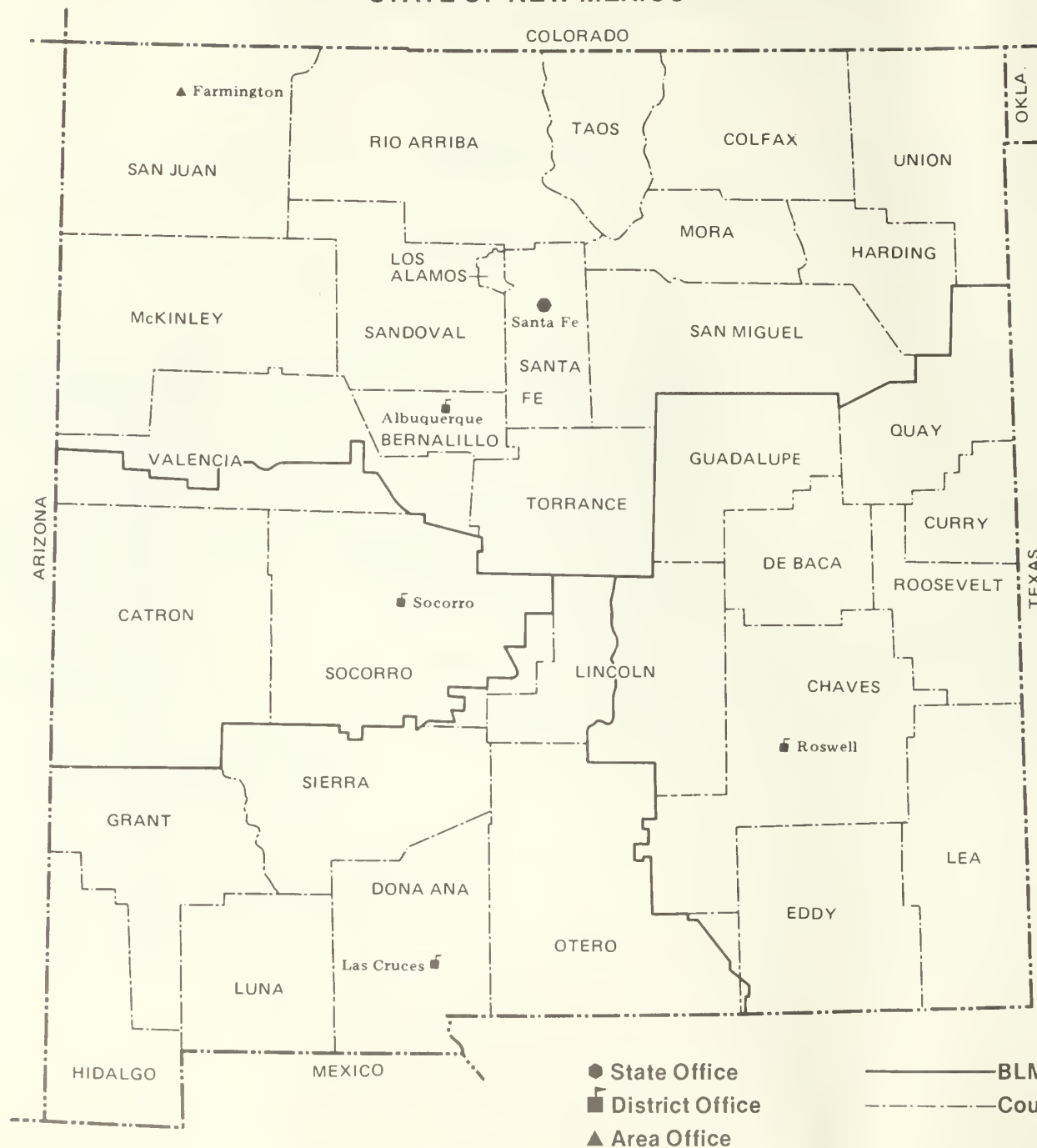
Post Office Building
Drawer 911
Havre, MT 59501
406-265-5891

Valley Res. Area Hdqs.

626 3rd Avenue South
Glasgow, MT 59230
406-654-1240

*Located at District Office

STATE OF NEW MEXICO



BUREAU OF LAND MANAGEMENT
NEW MEXICO
STATE OFFICE

U.S. Post Office and Federal Building
South Federal Place
P.O. Box 1449
Santa Fe, NM 87501
Telephone: 505-988-6204

DISTRICT OFFICES

Albuquerque District Office
3550 Pan American Freeway, NE
P.O. Box 6770
Albuquerque, NM 87107
505-766-2455

Rio Puerco Res. Area*

Rio Grande-Las Vegas Res. Area*

Farmington Res. Area Hdqs.
900 LaPlata Highway
P.O. Box 568
Farmington, NM 87401
505-325-3581

Oklahoma Project Office
200 NW Fifth Street
Room 548
Oklahoma City, OK 73101
405-231-4481

Las Cruces District Office
1705 North Valley Drive
P.O. Box 1420
Las Cruces, NM 88001
505-523-5571

Las Cruces-Lordsburg Res. Area*

White Sands Res. Area*

Roswell District Office
1717 West Second Street
Featherstone Farms Bldg.
P.O. Box 1397
Roswell, NM 88201
505-622-7673

Roswell Res. Area*

Carlsbad Res. Area*

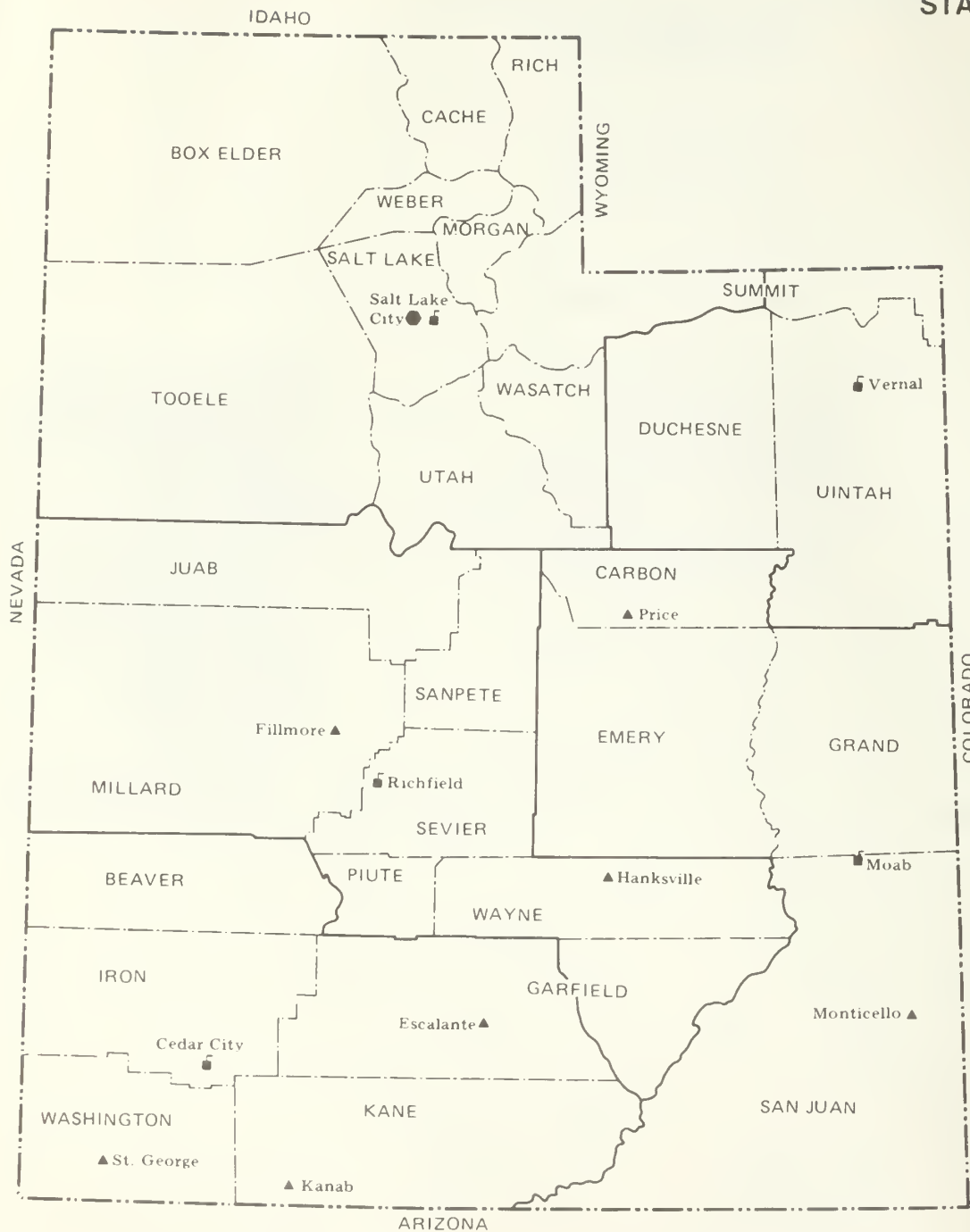
Socorro District Office
200 Neel Avenue, NW
P.O. Box 1456
Socorro, NM 87801
505-835-0412

Jornada Res. Area*

San Augustine Res. Area*

* Located at District Office

STATE OF UTAH



- State Office
- District Office
- ▲ Area Office
- BLM District Boundaries
- - - County Boundaries

BUREAU OF LAND MANAGEMENT
UTAH
STATE OFFICE

University Club Building
136 East South Temple
Salt Lake City, UT 84111
Telephone: FTS 588-Plus Ext.
801-524-5320

DISTRICT OFFICES

Salt Lake District Office
2370 South 2300 West
Salt Lake City, UT 84119
801-524-5348

Wasatch Res. Area*

Bonneville Res. Area*

Cedar City District Office
1579 North Main Street
P.O. Box 729
Cedar City, UT 84720
801-586-9443

Dixie Res. Area

Dixie Office Building
P.O. Box 726
St. George, UT 84770
801-673-2463

Paria Res. Area

320 North First East
Kanab, UT 84741
801-644-2672

Escalante Res. Area
Escalante, UT 84726
801-826-4368

Vermillion Res. Area
320 North First East
Kanab, UT 84741
801-644-2672

Beaver River Res. Area
82 North First East
P.O. Box 208
Cedar City, UT 84720
801-586-9722

Richfield District Office
850 North Main Street
P.O. Box 768
Richfield, UT 84701
801-896-5401

Warm Springs Res. Area
P.O. Box 778
Fillmore, UT 84631
801-743-6811

Seiver River Res. Area
P.O. Box 768
Richfield, UT 84701
801-896-5401

House Range Res. Area
P.O. Box 778
Fillmore, UT 84631
801-743-6811

Henry Mountain Res. Area
P.O. Box 11
Hanksville, UT 84734
801-896-5401

Moab District Office
125 West 2nd South
P.O. Box 970
Moab, UT 84532
801-259-6111

Canyon Res. Area
284 South 1st West
P.O. Box 1327
Monticello, UT 84535
801-587-2201

San Juan Res. Area
284 South 1st West
P.O. Box 1327
Monticello, UT 84535
801-587-2201

Grand Res. Area
446 South Main
Moab, UT 84532
801-259-6111

Price River Res. Area
900 North 7th East
P.O. Box AB
Price, UT 84501
801-637-4584

San Rafael Res. Area
900 North 7th East
P.O. Box AB
Price, UT 84501
801-637-4584

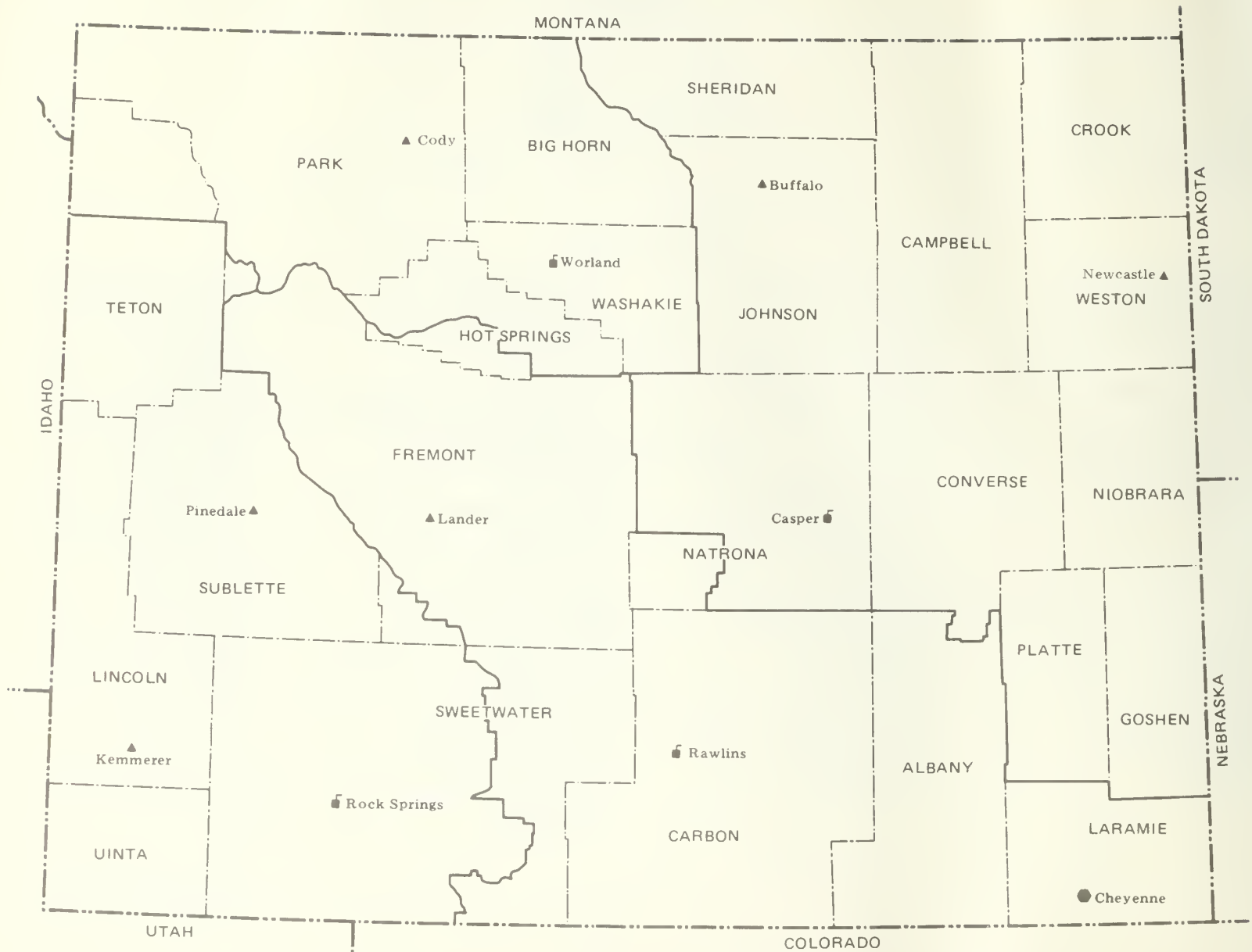
Vernal District Office
91 West Main Street
P.O. Box F
Vernal, UT 84078
801-789-1362

Diamond Mountain Res. Area*

Bookcliffs Res. Area*

* Located at District Office

STATE OF WYOMING



- State Office
- District Office
- ▲ Area Office

- BLM District Boundaries
- - - County Boundaries

BUREAU OF LAND MANAGEMENT
WYOMING
STATE OFFICE

P.O. Box 1828
2515 Warren
Cheyenne, WY 82001
Phone 778-2220-2413

DISTRICT OFFICES

Worland District Office

P.O. Box 119
1700 Robertson Ave.
Worland, WY 82401
307-347-6151

Shoshone Res. Area*

Washakie Res. Area*

Cody Res. Area

Federal Building
1131 — 13th
P.O. Box 528
Cody, WY 82414
307-587-2216

Rawlins District Office

P.O. Box 670
1300 3rd Street
Rawlins, WY 82301
307-324-7171

Divide Res. Area*

Medicine Bow Res. Area*

Lander Res. Area

P.O. Box 589
Lander, WY 82520
307-332-4220

Rock Springs District Office

P.O. Box 1869
Highway 187N
Rock Springs, WY 82901
307-382-5350

Green River Res. Area*

Pinedale Res. Area

P.O. Box 768
Molyneux Building
Pinedale, WY 82941
307-367-4358

Kemmerer Res. Area

P.O. Box 632
Kemmerer, WY 83101
307-877-3555

Casper District Office

951 Union Blvd.
Casper, WY 82601
307-265-5550, ext. 5101

Platte River Res. Area*

Buffalo Res. Area

P.O. Box 670
Buffalo, WY 82834
307-684-5586

Newcastle Res. Area

P.O. Box 757
Newcastle, WY 82701
307-746-4453

*Located at District Office

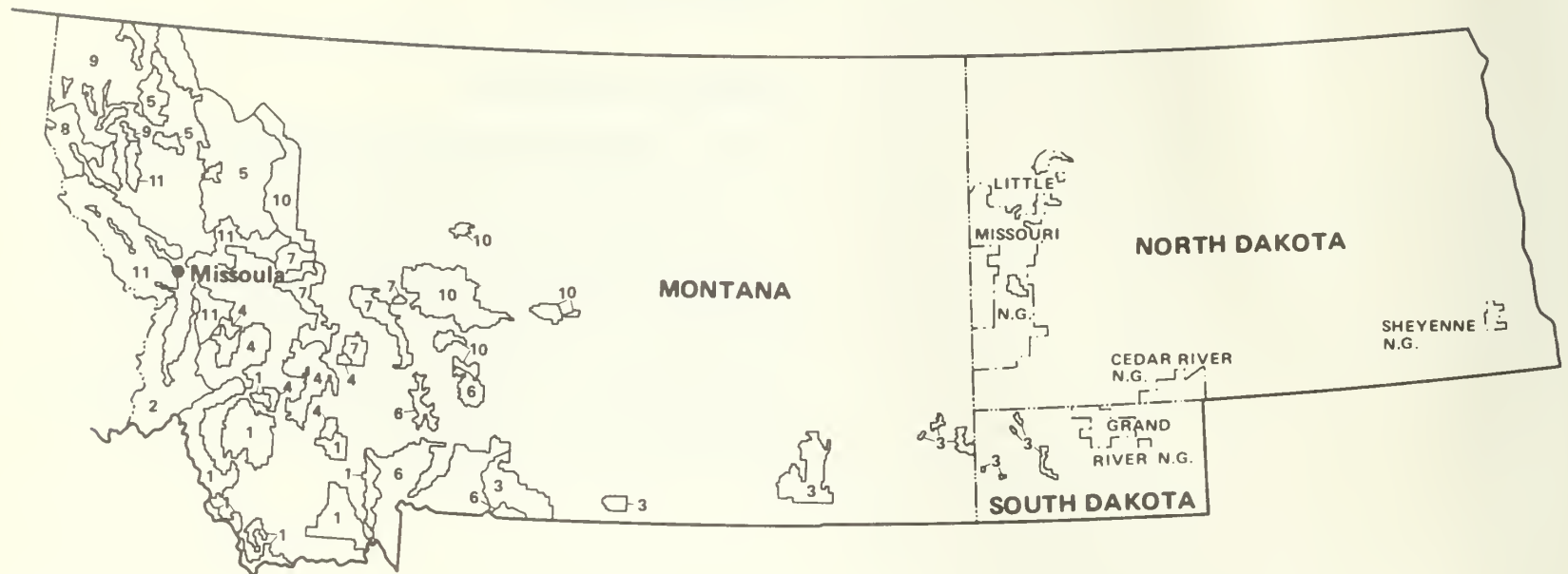
FOREST SERVICE NATIONAL FOREST OFFICES AND MAPS

Forest Service, U.S. Department of Agriculture

The Forest Service administers the National Forest System lands which include the National Forests, National Grasslands and Land Utilization Projects. The Forest Service District Ranger is responsible for the administration of those National Forest System lands within a specific area. Contact the Forest Supervisor's Office of the National Forest to obtain the address of the responsible District Ranger.

NORTHERN REGION

Region 1



— Forest Service Regional Boundary
 - - - State Boundary
 — National Forest Boundaries

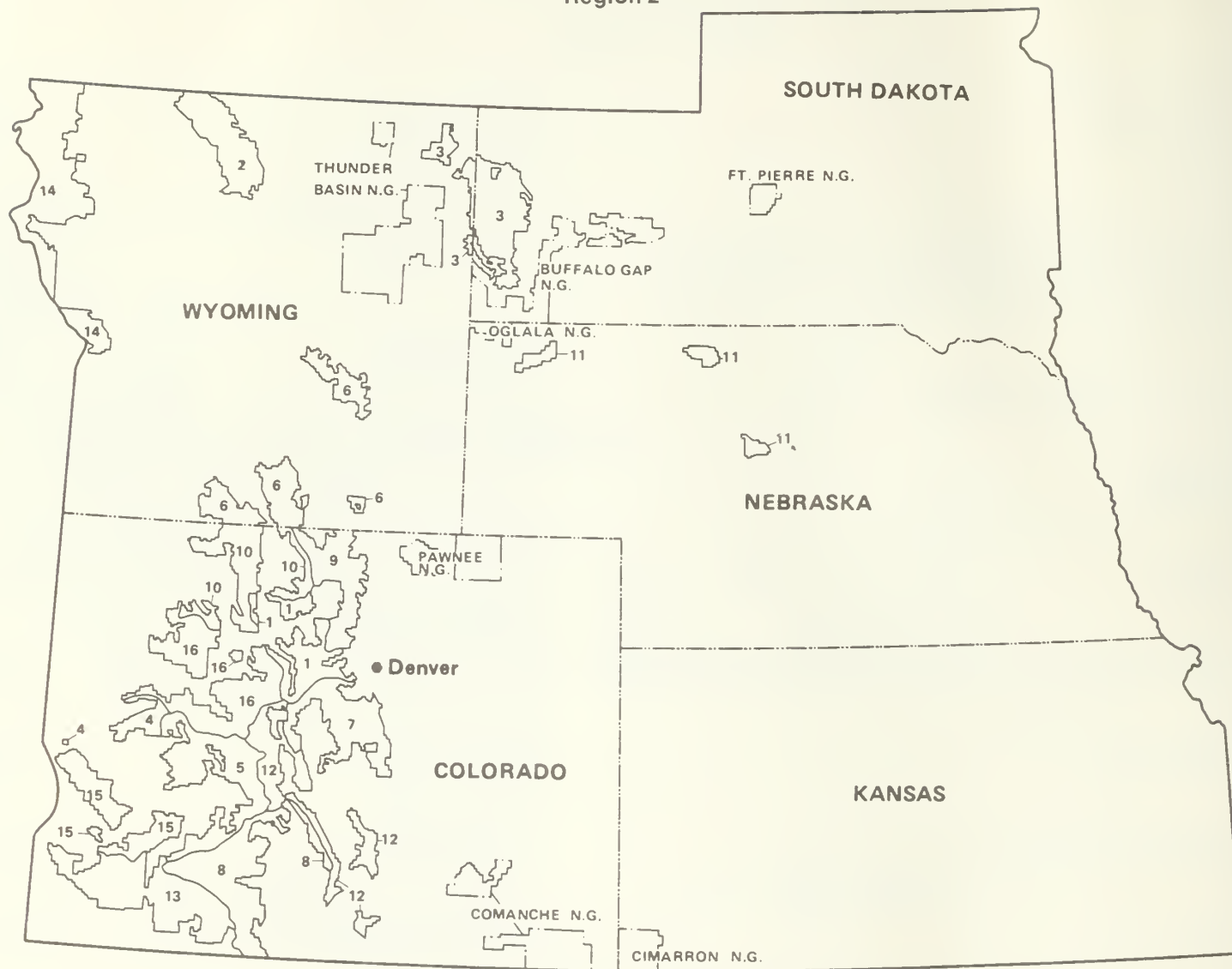
- - - National Grasslands (NG)
 ● Regional Office

NORTHERN REGION
Region 1

Map No.	National Forests	Address	Telephone
1	Beaverhead	P.O. Box 1258 Dillon, Mt 59725	406-683-2312
2	Bitterroot	316 North Third Street Hamilton, MT 59840	406-363-3131
3	Custer (Including Cedar River, Little Missouri and Sheyenne National Grasslands in North Dakota and Grand River National Grasslands in South Dakota)	P.O. Box 2556 Billings, MT 59103	406-657-6361
4	Deerlodge	Federal Building P.O. Box 400 Butte, MT 59701	406-723-6561
5	Flathead	290 North Main Street P.O. Box 147 Kalispell, MT 59901	406-755-5401
6	Gallatin	Federal Building P.O. Box 130 Bozeman, MT 59715	406-587-5271
7	Helena	Steamboat Block Building, Rm 205 616 Helena Avenue Helena, MT 59601	406-449-5201
8	Idaho Panhandle NF (includes Kanikou NF in Montana)	201 Ironwood Drive P.O. Box 310 Coeur D'Alene, Idaho 83814	208-667-2561
9	Kootenai	West Highway 2 P.O. Box AS Libby, MT 59923	406-293-6211
10	Lewis and Clark	Federal Building P.O. Box 871 Great Falls, MT 59403	406-454-1321
11	Lolo	Building 24, Fort Missoula Missoula, MT 59801	406-329-3563
Northern Regional Office Minerals and Geology Staff Unit		Federal Building Missoula, MT 59801	406-329-3518

ROCKY MOUNTAIN REGION

Region 2



— Forest Service
 — Regional Boundary
 - - - State Boundary
 — National Forest
 — Boundaries

- - - National Grasslands
 (NG)
 ● Regional Office

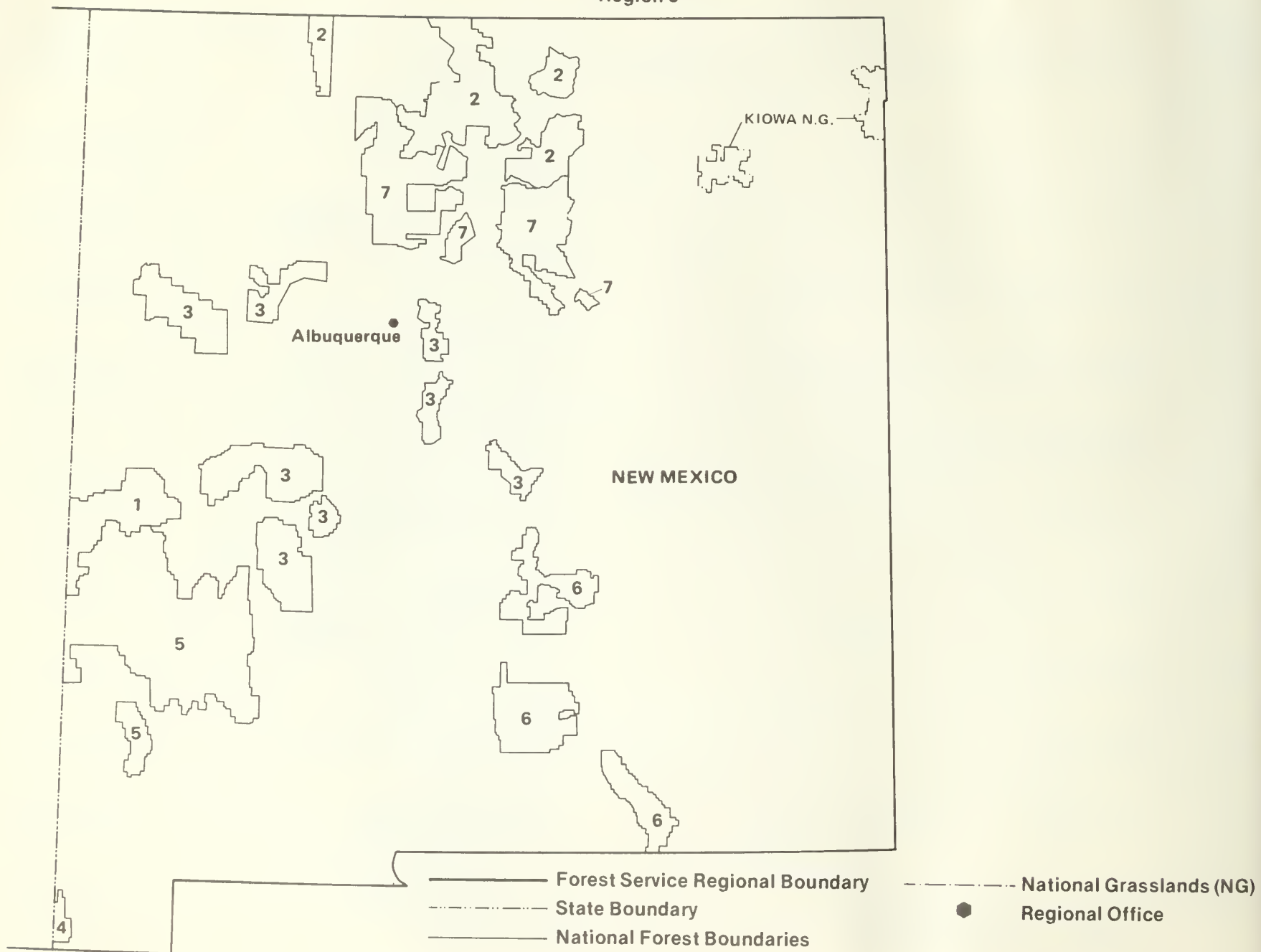
ROCKY MOUNTAIN REGION

Region 2

Map No.	National Forest	Address	Telephone
1,9	Arapaho and Roosevelt (incl. Pawnee National Grassland)	Federal Building 301 S. Howes P.O. Box 1366 Fort Collins, CO 80521	303-482-5155
2	Bighorn	Columbus Building P.O. Box 2046 Sheridan, WY 82801	307-672-2457
3	Black Hills	Forest Service Office Building P.O. Box 792 Custer, SD 57730	605-673-2251
4, 5, 15	Grand Mesa, Uncompahgre, and Gunnison	P.O. Box 138 11th & Main Street Delta, CO 81416	303-874-4411
6	Medicine Bow (incl. Thunder Basin NG)	605 Skyline Drive Laramie, WY 82070	307-745-7308
11	Nebraska (incl. Samuel R. McKelvie NF, Ft. Pierre, Oglala and Buffalo Gap NG)	270 Pine Street Chadron, NE 69337	308-432-3367
7, 12	Pike and San Isabel (incl. Cimarron and Comanche NG)	910 Highway 50 West Pueblo, CO 81008	303-544-5277
8	Rio Grande	1803 West Highway 160 Monte Vista, CO 81144	303-852-5941
10	Routt	Hunt Building 137 10th Street P.O. Box 1198 Steamboat Springs, CO 80477	303-879-1722
13	San Juan	701 Camino Del Rio P.O. Box 341 Durango, CO 81301	303-247-4874
14	Shoshone	W. Yellowstone Highway P.O. Box 961 Cody, WY 82414	307-587-4297
16	White River	Old Federal Building P.O. Box 948 Glenwood Springs, CO 81601	303-945-6582
Rocky Mountain Regional Office Watershed, Soils and Minerals Area Management Staff Unit		11177 West 8th Avenue P.O. Box 25127 Denver, CO 80225	303-234-3905

SOUTHWESTERN REGION

Region 3



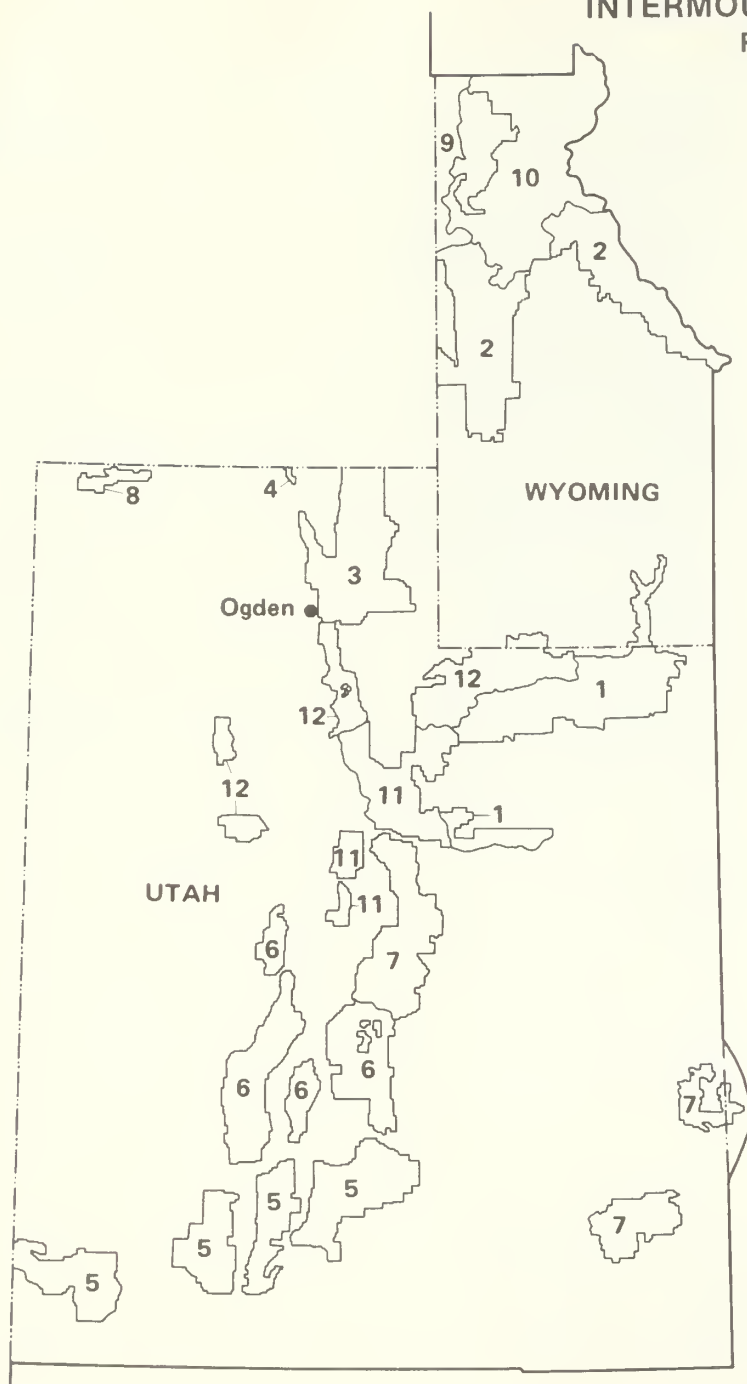
SOUTHWESTERN REGION

Region 3

Map No.	National Forests	Address	Telephone
2	Carson	Forest Service Building P.O. Box 558 Taos, NM 87571	505-758-2238
3	Gibola (incl. Kiowa, Black Kettle, Rita Blanca, Lake McLellan and Lake Marvin National Grasslands)	10308 Candelaria, NE Albuquerque, NM 87112	505-766-2185
4	Coronado	Federal Building 301 West Congress Tucson, AZ 85702	602-792-6483
1, 5	Gila (incl. Apache NF in NM)	2610 North Silver Street Silver City, NM 88061	505-388-1986
6	Lincoln	Federal Building 11th & New York Alamogordo, NM 88310	505-437-6030
7	Santa Fe	Federal Building P.O. Box 1689 Santa Fe, NM 87501	505-988-6328
Southwestern Regional Office Lands and Minerals Staff Unit		517 Gold Avenue, SW Albuquerque, NM 87102	505-766-2005

INTERMOUNTAIN REGION

Region 4



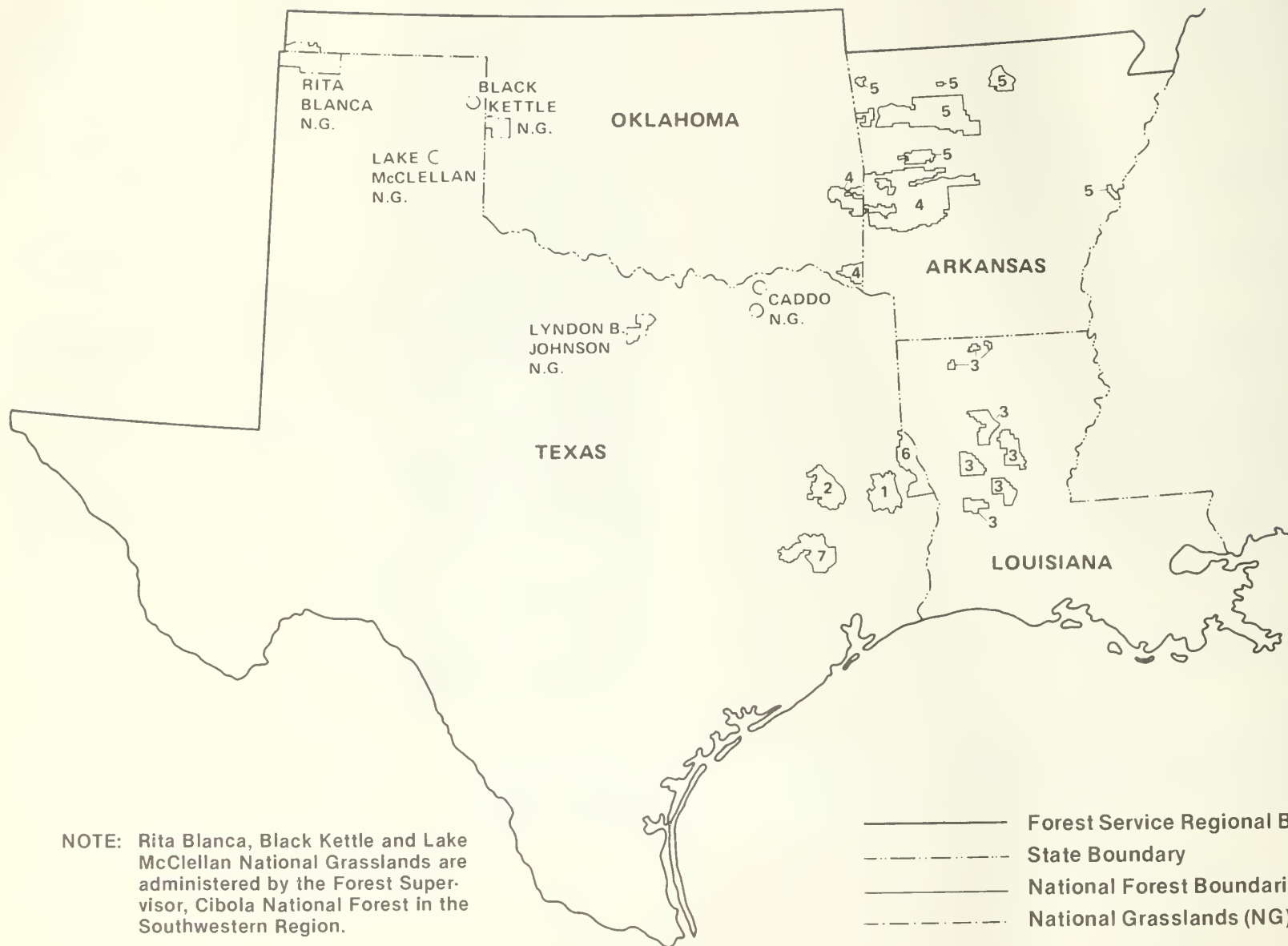
- Forest Service Regional Boundary
- - - - State Boundary
- National Forest Boundaries
- Regional Office

INTERMOUNTAIN REGION

Region 4

Map No.	National Forests	Address	Telephone
1	Ashley	437 East Main Street Vernal, UT 84078	801-789-1181
2, 10	Bridger-Teton	Forest Service Building P.O. Box 1888 Jackson, WY 83001	307-733-2752
4	Caribou	427 North 6th Avenue P.O. Box 4189 Pocatello, ID 83201	208-232-1142
5	Dixie	82 North 100 East P.O. Box 580 Cedar City, UT 84720	801-586-2421
6	Fishlake	170 North Main Street Richfield, UT 84701	801-896-4491
7	Manti-LaSal	350 East Main Street Price, UT 84501	801-637-2817
8	Sawtooth	1525 Addison Avenue, East Twin Falls, ID 83301	208-733-3698
9	Targee	420 N. Bridge Street St. Anthony, ID 83445	208-624-3151
11	Uinta	88 West 100 North P.O. Box 1428 Provo, UT 84601	801-377-5780
3, 12	Wasatch-Cache	8226 Federal Building 125 South State Street Salt Lake City, UT 84138	801-524-5030
Intermountain Regional Office Minerals Area Management Staff Unit		Federal Building 324 25th Street Ogden, UT 84401	801-399-6264

SOUTHERN REGION Region 8

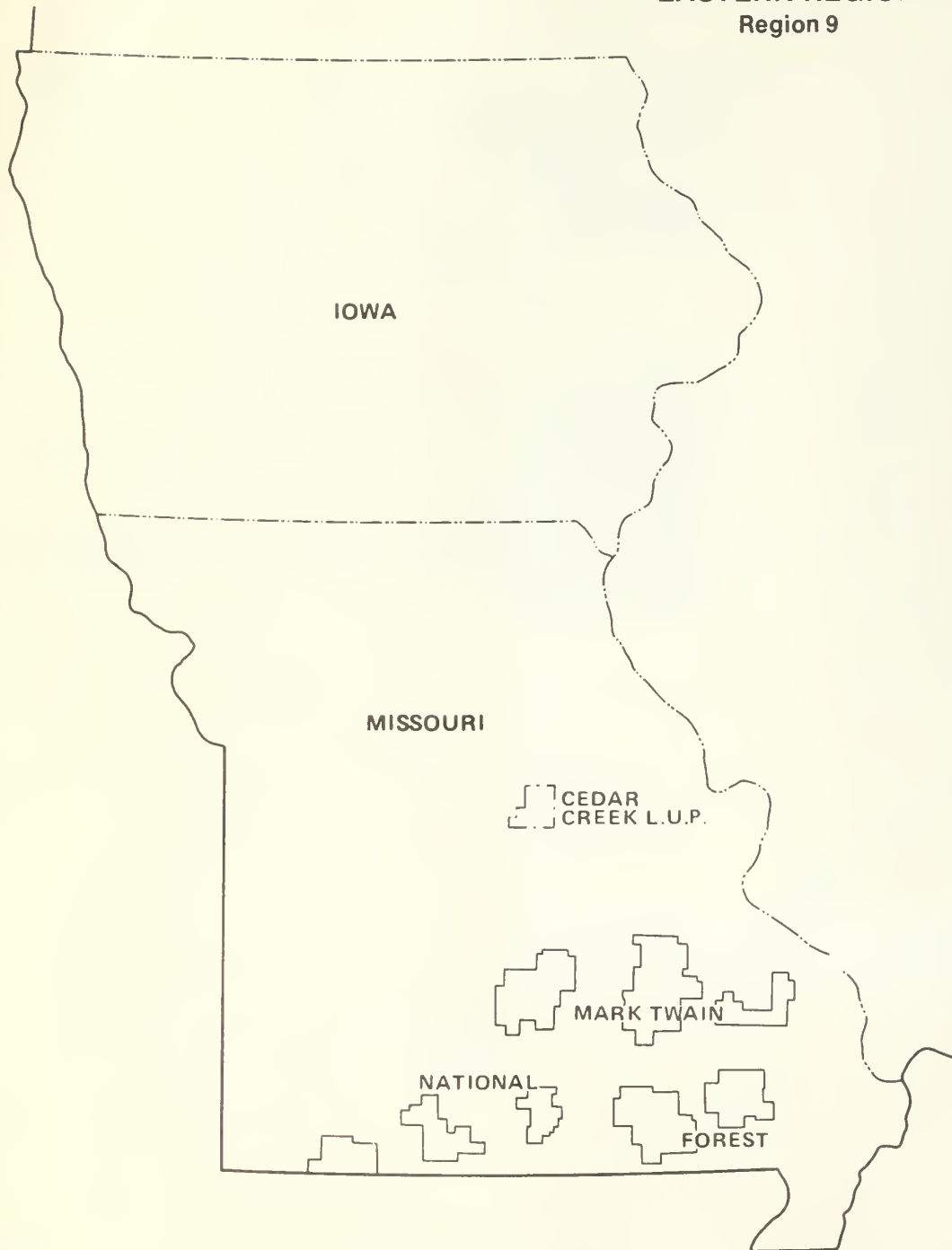


SOUTHERN REGION

Region 8

Map No.	National Forests	Address	Telephone
3	Kisatchie	2500 Shreveport Highway Pineville, LA 71360	318-445-6511
	National Forests in Texas	Federal Building	713-632-4446
1	Angelina	P.O. Box 969	
2	Davy Crockett	Lufkin, TX 75901	
6	Sabine		
7	Sam Houston		
	Caddo National Grassland		
	Lyndon B. Johnson National Grassland		
4	Ouachita	Federal Building P.O. Box 1270 Hot Springs, AR 71901	501-623-7763
5	Ozark — St. Francis	605 W. Main St. P.O. Box 1008 Russellville, AR 72801	501-968-2354
Southern Regional Office Watershed and Minerals Staff Unit		1720 Peachtree Road, NW — Rm 901 Atlanta, GA 30309	404-881-2692

EASTERN REGION Region 9



- Forest Service Regional Boundary
- - - - State Boundary
- · - · National Forest Boundary
- · · · Land Utilization Project

Mark Twain National Forest
(Includes Cedar Creek L.U.P.)
401 Fairground Road
Rolla, MO 65401
314-364-4621

Eastern Regional Office
Lands and Watershed Management Staff Unit
633 West Wisconsin Avenue
Milwaukee, WI 53202
414-291-3324

Bureau of Land Management
Library
Denver Service Center

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